



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 151497

TO: Sumesh Kaushal
Location: REM-2B85/2C70
Art Unit: 1636
Wednesday, April 27, 2005

Case Serial Number: 10/735014

From: Barb O'Bryen
Location: Biotech-Chem Library
Remsen 1a69
Phone: 571-272-2518

barbara.obryen@uspto.gov

Search Notes

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 26, 2005, 19:00:41 ; Search time 122 Seconds
(without alignments)
1366.342 Million cell updates/sec

Title: US-10-735-014-83
Perfect score: 2211
Sequence: 1 MFFGEGSLTYTLVIICFLT.....LARKYSLDYLVINGIYVDI 431

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 385760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database: A_Geneseq_16Dec04:*

- 1: Geneseqp1980s:*
- 2: Geneseqp1990s:*
- 3: Geneseqp2000s:*
- 4: Geneseqp2001s:*
- 5: Geneseqp2002s:*
- 6: Geneseqp2003as:*
- 7: Geneseqp2003bs:*
- 8: Geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2211	100.0	431	2 AAY17834	Aay17834 Human PRO
2	2211	100.0	431	3 AAB33428	Aab33428 Human PRO
3	2211	100.0	431	3 AAB01325	Aab01325 Human PRO
4	2211	100.0	431	3 AAB34739	Aab34739 Human PRO
5	2211	100.0	431	4 AAB95464	Aab95464 Human PRO
6	2211	100.0	431	4 AAB65299	Aab65299 Human PRO
7	2211	100.0	431	6 ABUS5934	Abu5934 Human PRO
8	2211	100.0	431	6 ABUS58114	Abu58114 Human PRO
9	2211	100.0	431	6 ABUS59192	Abu59192 Human PRO
10	2211	100.0	431	6 ABUS2704	Abu2704 Human PRO
11	2211	100.0	431	6 ABUS6023	Abu6023 Human PRO
12	2211	100.0	431	6 ABUS4005	Abu4005 Human PRO
13	2211	100.0	431	6 ABUS60244	Abu60244 Human PRO
14	2211	100.0	431	6 ABUS72590	Abu72590 Human PRO
15	2211	100.0	431	6 ABUS64930	Abu64930 Human PRO
16	2211	100.0	431	6 ABUS8364	Abu8364 Human PRO
17	2211	100.0	431	6 ABUS7250	Abu7250 Human PRO
18	2211	100.0	431	6 ABUS9339	Abu9339 Human PRO
19	2211	100.0	431	6 ABO26036	Abo26036 Human PRO
20	2211	100.0	431	6 ABUS6315	Abu6315 Human PRO
21	2211	100.0	431	6 ABUS60355	Abu60355 Human PRO
22	2211	100.0	431	6 ABUS9045	Abu9045 Human PRO
23	2211	100.0	431	6 ABUS92423	Abu92423 Human PRO
24	2211	100.0	431	6 ABUS9488	Abu9488 Human PRO
25	2211	100.0	431	6 ABUS92254	Abu92254 Human PRO

26	2211	100.0	431	6 ABU10960	Abu10960 Human PRO
27	2211	100.0	431	6 ABU11316	Abu11316 Human PRO
28	2211	100.0	431	6 ABU67135	Abu67135 Human PRO
29	2211	100.0	431	6 ABU81712	Abu81712 Novel hum
30	2211	100.0	431	6 ABU88651	Abu88651 Human PRO
31	2211	100.0	431	6 ABO34165	Abo34165 Human PRO
32	2211	100.0	431	6 ADA38026	Ada38026 Human PRO
33	2211	100.0	431	6 ADA21712	Ada21712 Human PRO
34	2211	100.0	431	6 ADA10499	Ada10499 Human PRO
35	2211	100.0	431	6 ADA18043	Ada18043 Human PRO
36	2211	100.0	431	6 ADA28151	Ada28151 Human PRO
37	2211	100.0	431	6 ADA94731	Ada94731 Human PRO
38	2211	100.0	431	6 ADA38956	Ada38956 Human PRO
39	2211	100.0	431	6 ADA93077	Ada93077 Human PRO
40	2211	100.0	431	7 ABO53251	Abo53251 Human PRO
41	2211	100.0	431	7 ADA22638	Ada22638 Human PRO
42	2211	100.0	431	7 ABO22621	Abo22621 Human PRO
43	2211	100.0	431	7 ADA06804	Ada06804 Human PRO
44	2211	100.0	431	7 ADA39497	Ada39497 Human PRO
45	2211	100.0	431	7 ADB96523	Adb96523 Human PRO

ALIGNMENTS

RESULT 1
AAY17834
ID AAY17834 standard; protein; 431 AA.
XX AC AAY17834;
XX DT 12-AUG-1999 (first entry)
XX DE Human PRO361 protein sequence.
XX KW Human; PRO protein; tumour necrosis factor family; TNF; cytokine;
XX RW secreted protein; transmembrane protein; inflammation disorder.
XX OS Homo sapiens.
XX FN WO9928462-A2.
XX PD 10-JUN-1999.
XX PF 01-DEC-1998; 98WO-US025108.
XX PR 03-DEC-1997; 97US-0067411P.
XX PR 11-DEC-1997; 97US-0069278P.
XX PR 11-DEC-1997; 97US-0069334P.
XX PR 12-DEC-1997; 97US-0069335P.
XX PR 16-DEC-1997; 97US-0069425P.
XX PR 16-DEC-1997; 97US-0069694P.
XX PR 16-DEC-1997; 97US-0069696P.
XX PR 16-DEC-1997; 97US-0069702P.
XX PR 17-DEC-1997; 97US-0069870P.
XX PR 17-DEC-1997; 97US-0069873P.
XX PR 18-DEC-1997; 97US-0068017P.
XX PR 05-JAN-1998; 98US-0070402P.
XX PR 09-FEB-1998; 98US-0074088P.
XX PR 09-FEB-1998; 98US-0074092P.
XX PR 25-FEB-1998; 98US-0075945P.
(GETH) GENENTECH INC.
XX PI Wood WI, Goddard A, Gurney AL, Yuan J, Baker KP, Chen J;
XX WPI; 1999-371118/31.
XX DR N-PSDB; AAX80059.
XX PT Nucleic acids encoding PRO secreted and transmembrane proteins.
XX PS Claim 12; Fig 37; 123pp; English.
XX

CC The present invention describes nucleic acids encoding PRO secreted and
CC transmembrane proteins used therapeutically. The PRO proteins have
CC cytosolic, anti-inflammatory, anti-proliferative and immunosuppressive
CC activity. The proteins and polynucleotides can be used in therapy.
CC identification of homologues, raising antibodies and design of probes and
CC primers. They can be used in a range of diseases related to proteins that
CC they have homology with, e.g. a PRO protein having homology to complement
CC proteins may be used in inflammatory responses
XX
SQ Sequence 431 AA;

Query Match 100.0%; Score 2211; DB 2; Length 431;
Best Local Similarity 100.0%; Pred. No. 4,9e-173;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MFFGEGSLTVLIIICFLRLSASQNLKSLKSLVVDIIQSLSGIRGNEPVTSTQ 60
DB 1 MFFGEGSLTVLIIICFLRLSASQNLKSLKSLVVDIIQSLSGIRGNEPVTSTQ 60
QY 61 EDCINSCCSTKNIISGDKACNLMIIDTRKTARQPCNYLFFCPNEACPLKPAKGLMSYRII 120
DB 61 EDCINSCCSTKNIISGDKACNLMIIDTRKTARQPCNYLFFCPNEACPLKPAKGLMSYRII 120
QY 121 TDFPSLTRLNLSQELPQEDSLHGFQSOAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD 180
DB 121 TDFPSLTRLNLSQELPQEDSLHGFQSOAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD 180
QY 181 HLEKLFKMDASAQLLAYKEGHSQSOFSSDQEIHLHPENVGALPATVAVASPHTTSA 240
DB 181 HLEKLFKMDASAQLLAYKEGHSQSOFSSDQEIHLHPENVGALPATVAVASPHTTSA 240
QY 241 TPKPATLLPTNASVTPSGTSPQIATTPVTTVTSQPTTLISTVTFRAATLQAMATT 300
DB 241 TPKPATLLPTNASVTPSGTSPQIATTPVTTVTSQPTTLISTVTFRAATLQAMATT 300
QY 301 AVLTTFQAPTDKSGSLTIPETETSNLTNGVNPYNTALSMNVESSTMNKTASWEGR 360
DB 301 AVLTTFQAPTDKSGSLTIPETETSNLTNGVNPYNTALSMNVESSTMNKTASWEGR 360
QY 361 EASPGSSSGVSPENQYGLPEKWLIIIGSLFGVLVIGLVLLGRILSELRRKRSRL 420
DB 361 EASPGSSSGVSPENQYGLPEKWLIIIGSLFGVLVIGLVLLGRILSELRRKRSRL 420
QY 421 DYLLINGIYVDI 431
DB 421 DYLLINGIYVDI 431

RESULT 2
AAB33428
ID AAB33428 standard; protein; 431 AA.

XX AAB33428;

XX 29-JAN-2001 (first entry)

DE Human PRO361 protein UNQ316 SEQ ID NO:72.

XX Human; immune related disease; diagnosis; antiinflammatory; cardiant;
XX dermatological; antiarthritis; antirheumatic; immunosuppressive;
XX haemostatic; antithyroid; antidiabetic; nootropic; neuroprotective;
XX antianemic; hepatotropic; viricide; antipsoriatic; antiallergic;
XX antisthmatic; systemic lupus erythematosus; rheumatoid arthritis;
XX osteoarthritis; spondyloarthritis; systemic sclerosis; sarcoidosis;
XX idiopathic inflammatory myopathy; Sjogren's syndrome; thyroiditis;
XX systemic vasculitis; autoimmune haemolytic anaemia; diabetes mellitus;
XX autoimmune thrombocytopaenia; immune-mediated renal disease;
XX demyelinating disease; hepatobiliary disease; Whipple's disease;
XX inflammatory bowel disease; gluten-sensitive enteropathy;
XX autoimmune disease; immune-mediated skin disease; allergic disease;
XX immunological disease; transplantation associated disease;
XX graft rejection; graft-versus-host-disease.

OS Homo sapiens.

XX WO200053758-A2.

XX 14-SEP-2000.

XX 02-MAR-2000; 2000WO-US005841.

XX 08-MAR-1999; 99WO-US005028.

XX 10-MAR-1999; 99US-0123618P.

XX 12-MAR-1999; 99US-0123957P.

XX 12-APR-1999; 99US-0125775P.

XX 12-APR-1999; 99US-0128849P.

XX 20-APR-1999; 99WO-US008615.

XX 28-APR-1999; 99US-0131445P.

XX 04-MAY-1999; 99US-0132371P.

XX 12-MAY-1999; 99US-0134287P.

XX 23-JUN-1999; 99US-0141037P.

XX 20-JUL-1999; 99US-0144758P.

XX 26-JUL-1999; 99US-0145698P.

XX 28-JUL-1999; 99US-0148222P.

XX 01-SEP-1999; 99WO-US020111.

XX 08-SEP-1999; 99WO-US020594.

XX 13-SEP-1999; 99WO-US020944.

XX 15-SEP-1999; 99WO-US021090.

XX 15-SEP-1999; 99WO-US021547.

XX 05-OCT-1999; 99WO-US023089.

XX 29-OCT-1999; 99US-0162506P.

XX 29-NOV-1999; 99WO-US028214.

XX 30-NOV-1999; 99WO-US028313.

XX 30-NOV-1999; 99WO-US028409.

XX 01-DEC-1999; 99WO-US028301.

XX 01-DEC-1999; 99WO-US028634.

XX 02-DEC-1999; 99WO-US028551.

XX 02-DEC-1999; 99WO-US028564.

XX 02-DEC-1999; 99WO-US028565.

XX 16-DEC-1999; 99WO-US030095.

XX 20-DEC-1999; 99WO-US030999.

XX 30-DEC-1999; 99WO-US031274.

XX 05-JAN-2000; 2000WO-US000219.

XX 06-JAN-2000; 2000WO-US000277.

XX 06-JAN-2000; 2000WO-US000376.

XX 11-FEB-2000; 2000WO-US003565.

XX 18-FEB-2000; 2000WO-US004341.

XX 18-FEB-2000; 2000WO-US004342.

XX 22-FEB-2000; 2000WO-US004414.

(GETH) GENENTECH INC.

XX Ashkenazi AJ, Baker KP, Goddard A, Gurney AL, Hebert C, Henzel W;
PI Kabakoff RC, Lu Y, Pan J, Pennica D, Shelton DL, Smith V;
PI Stewart TA, Tamas D, Watanabe CK, Wood WI, Yan M;

XX WPI; 2000-572271/53.

XX N-ESDB; AAC58593.

XX Sixty four PRO polypeptides, useful in the diagnosis and treatment of
XX immune related disorders, e.g. systemic lupus erythematosus, rheumatoid
XX arthritis, osteoarthritis, thyroiditis and diabetes mellitus.

XX Claim 33; Fig 30; 309pp; English.

XX The present invention describes sixty four human PRO proteins which can
XX be used in the treatment of immune related diseases. The human PRO
XX proteins, anti-PRO antibodies, agonists and antagonists are useful for
XX treating and diagnosing immune related disorders. The disorders are
XX selected from systemic lupus erythematosus, rheumatoid arthritis,
XX osteoarthritis, juvenile chronic arthritis, myopathies, Sjogren's
XX syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic
XX anaemia, autoimmune thrombocytopaenia, thyroiditis, diabetes mellitus,
XX immune-mediated renal disease, demyelinating diseases of the central and

CC peripheral nervous systems, hepatobiliary diseases, inflammatory bowel
 CC disease, gluten-sensitive enteropathy and Whipple's disease, autoimmune
 CC or immune-mediated skin diseases, allergic diseases, immunological
 CC diseases of the lung, and transplantation associated diseases including
 CC graft rejection and graft-versus-host-disease. AAC58397 to AAC58578
 CC represent PCR primers and hybridisation probes used in the isolation of
 CC human PRO sequences. AAC58579 to AAC58642 and AAB33414 to AAB33477
 CC represent human PRO polynucleotide and protein sequences given in the
 CC exemplification of the present invention
 XX
 SQ Sequence 431 AA;

Query Match 100.0%; Score 2211; DB 3; Length 431;
 Best Local Similarity 100.0%; Pred. No. 4.9e-173;
 Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MFFGGGSLTYTLVLIICFLTLRLSASQNCCLKSLEDVWIDIOSSLKSGIRGNEPVYTSQ 60
 Db 1 MFFGGGSLTYTLVLIICFLTLRLSASQNCCLKSLEDVWIDIOSSLKSGIRGNEPVYTSQ 60

QY 61 EDCINSCCSTKNISGDKACNLMI FTRKTARQPCNYLFFCPNEEACPLKPAKGLMSYRII 120
 Db 61 EDCINSCCSTKNISGDKACNLMI FTRKTARQPCNYLFFCPNEEACPLKPAKGLMSYRII 120

QY 121 TDFPSLTNLPSQELPQEDSLHLHGQFSQAVTPPLAHHHTDYSKPTDISWRDTLSQKFGSSD 180
 Db 121 TDFPSLTNLPSQELPQEDSLHLHGQFSQAVTPPLAHHHTDYSKPTDISWRDTLSQKFGSSD 180

QY 181 HLEKLFKMEASQALLAYKEKGHSQSSQFSSDOEIAHLHPENVVSALPATVAVASPHTTSA 240
 Db 181 HLEKLFKMEASQALLAYKEKGHSQSSQFSSDOEIAHLHPENVVSALPATVAVASPHTTSA 240

QY 241 TPKPATLLPTNASVTPSGTSQPOLATTAPPVTVTSQPPTTLISVFTTAAATLQAMATT 300
 Db 241 TPKPATLLPTNASVTPSGTSQPOLATTAPPVTVTSQPPTTLISVFTTAAATLQAMATT 300

QY 301 AVLTTTFQAPTDKSGLETIPTEISNLTLNTGNVNTALSNVSVESSTMNKTASWEGR 360
 Db 301 AVLTTTFQAPTDKSGLETIPTEISNLTLNTGNVNTALSNVSVESSTMNKTASWEGR 360

QY 361 EASPGSSSGSPENQYGLPFKKWLLIGSLFLQVLFVLVGLVILGILSESRLRRKYSRL 420
 Db 361 EASPGSSSGSPENQYGLPFKKWLLIGSLFLQVLFVLVGLVILGILSESRLRRKYSRL 420

QY 421 DYLLINGIYVDI 431
 Db 421 DYLLINGIYVDI 431

RESULT 3
 AAB01325
 ID AAB01325 standard; protein; 431 AA.
 XX
 AC AAB01325;
 XX
 DT 25-SEP-2000 (first entry)
 XX
 DE Human PRO361 polypeptide.
 XX
 KW PRO; membrane bound protein; secreted protein; PRO357; PRO327; PRO243;
 KW PRO175; PRO241; PRO323; PRO299; PRO233; PRO344; PRO347; PRO355; PRO353;
 KW PRO361; PRO365; transmembrane polypeptide; antibody; screening;
 KW detection; inhibition; probe; primer; human.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT Peptide 1..25
 FT /label= Signal peptide
 FT Modified-site 4..10
 FT /note= "N-myristoylation site"
 FT Modified-site 48..54
 FT /note= "N-myristoylation site"

FT Modified-site 50..57
 FT /note= "Tyrosine kinase phosphorylation site"
 FT Modified-site 72..76
 FT /note= "N-glycosylation site"
 FT Modified-site 222..226
 FT /note= "N-glycosylation site"
 FT Modified-site 251..255
 FT /note= "N-glycosylation site"
 FT Modified-site 315..321
 FT /note= "N-myristoylation site"
 FT Modified-site 327..331
 FT /note= "N-glycosylation site"
 FT Modified-site 352..356
 FT /note= "N-glycosylation site"
 FT Domain 384..405
 FT /label= Transmembrane domain
 FT Modified-site 415..419
 FT /note= "cAMP- and cGMP-dependent protein kinase phosphorylation site"
 FT
 FT WO2000032776-A2.
 XX
 XX 08-JUN-2000.
 XX
 XX 01-DEC-1999; 99WO-US028301.
 XX
 XX 01-DEC-1998; 98WO-US025108.
 XX 16-DEC-1998; 98US-0112850P.
 XX 22-DEC-1998; 98US-0113296P.
 XX
 XX (GETH) GENENTECH INC.
 XX
 XX Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
 PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL;
 PI Hillan KJ, Kijavini IJ, Napier MA, Roy MA, Tumas D, Wood WI;
 XX
 XX WPI; 2000-412324/35.
 XX N-PSDB; AAA49567.
 DR
 DR New human nucleic acids encoding secreted and transmembrane polypeptides,
 PT designated as PRO polypeptides, useful as pharmaceutical and diagnostic
 PT agents.
 XX
 XX Claim 12; Fig 32; 187pp; English.
 XX
 XX New human nucleic acids encoding secreted and transmembrane polypeptides
 CC which are designated as PRO polypeptides are described The membrane-bound
 CC proteins have various industrial applications, including as
 CC pharmaceutical and diagnostic agents. The membrane-bound proteins can
 CC also be employed for screening of potential peptide or small molecule
 CC inhibitors of the relevant receptor/ligand interaction. Anti-PRO
 CC antibodies are useful for the affinity purification of PRO from
 CC recombinant cell culture or natural sources
 XX
 SQ Sequence 431 AA;

Query Match 100.0%; Score 2211; DB 3; Length 431;
 Best Local Similarity 100.0%; Pred. No. 4.9e-173;
 Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MFFGGGSLTYTLVLIICFLTLRLSASQNCCLKSLEDVWIDIOSSLKSGIRGNEPVYTSQ 60
 Db 1 MFFGGGSLTYTLVLIICFLTLRLSASQNCCLKSLEDVWIDIOSSLKSGIRGNEPVYTSQ 60

QY 61 EDCINSCCSTKNISGDKACNLMI FTRKTARQPCNYLFFCPNEEACPLKPAKGLMSYRII 120
 Db 61 EDCINSCCSTKNISGDKACNLMI FTRKTARQPCNYLFFCPNEEACPLKPAKGLMSYRII 120

QY 121 TDFPSLTNLPSQELPQEDSLHLHGQFSQAVTPPLAHHHTDYSKPTDISWRDTLSQKFGSSD 180
 Db 121 TDFPSLTNLPSQELPQEDSLHLHGQFSQAVTPPLAHHHTDYSKPTDISWRDTLSQKFGSSD 180

QY 181 HLEKLFKMEASQALLAYKEKGHSQSSQFSSDOEIAHLHPENVVSALPATVAVASPHTTSA 240
 Db 181 HLEKLFKMEASQALLAYKEKGHSQSSQFSSDOEIAHLHPENVVSALPATVAVASPHTTSA 240

Db 181 HLEKLFKMDASQQLAYKEKGHSQSQFSDQEIHLHPENVSALPATVAVASPHTTSA 240
Qy 241 TPKEPATLLPTNASVTPSGTSQPLATTAPPVTTVTSQPTTLISTVTRAAATLQAMATT 300
Db 241 TPKEPATLLPTNASVTPSGTSQPLATTAPPVTTVTSQPTTLISTVTRAAATLQAMATT 300
Qy 301 AVLTTTQAPDTSKGSLETTIPFTEISNLTLNTGNVYNPTALSMSNVESSTMNKTASWEGR 360
Db 301 AVLTTTQAPDTSKGSLETTIPFTEISNLTLNTGNVYNPTALSMSNVESSTMNKTASWEGR 360
Qy 361 EASPGSSSQSVNPNQYGLPEKFKWLLIGSLFGVLFLVIGLVLLGRILSLRKRYSRL 420
Db 361 EASPGSSSQSVNPNQYGLPEKFKWLLIGSLFGVLFLVIGLVLLGRILSLRKRYSRL 420
Qy 421 DYLINGIYVDI 431
Db 421 DYLINGIYVDI 431
RESULT 4
ID AAB34739 standard; protein; 431 AA.
AC AAB34739;
XX
DT 26-JAN-2001 (first entry)
XX
DE Human secreted protein encoded by DNA clone vo27 1.
XX
KW Secreted protein; human; autoimmune disorder; multiple sclerosis; ulcer;
KW systemic lupus erythematosus; rheumatoid arthritis; anaemia; stroke;
KW haematopoiesis regulation; tissue regrowth; wound healing; haemophilia;
KW Alzheimer's disease; Parkinson's disease; Shy-drager syndrome; cancer;
KW contraceptive; infection; growth inhibition; hyperproliferative disorder;
KW psoriasis.
XX
OS Homo sapiens.
XX
FN WO200055375-A1.
XX
PD 21-SEP-2000.
XX
PF 17-MAR-2000; 2000WO-US007285.
XX
PR 17-MAR-1999; 99US-0124808P.
PR 17-MAR-1999; 99US-0124916P.
PR 17-AUG-1999; 99US-0149639P.
PR 01-OCT-1999; 99US-0157247P.
PR 29-NOV-1999; 99US-0167824P.
PR 15-FEB-2000; 2000US-0182711P.
XX
PA (ALPH-) ALPHAGENE INC.
XX
PI Valenzuela D, Yuan O, Hoffman H, Hall J, Rapiejko P;
XX
DR WPI; 2000-638211/61.
DR N-PSDB; AAC59840.
XX
PT Novel proteins and polypeptides useful for the treatment of e.g multiple
PT sclerosis, systemic lupus erythematosus, rheumatoid arthritis, cancer,
PT Alzheimer's disease, Parkinson's disease, stroke, anemia and ulcers.
XX
PS Claim 114; Page 453-455; 493pp; English.
XX
CC This invention relates to 59 human secreted proteins and the nucleotide
CC sequences encoding them. Sequences AAC59788-C59846 and AAB34687-B34745
CC represent the proteins and their encoding nucleotide sequences, and
CC sequences AAB34746-B34771 represent fragments of the proteins. Probes for
CC the DNA sequences are represented by sequences AAC59847-C59956. The
CC proteins exhibit neuroprotective, dermatological, immunosuppressive,
CC antiinflammatory, antianaemic, nootropic, antiparkinsonian,
CC cerebroprotective, haemostatic, vulnerary, cytostatic, antipsoriatic,

CC antibacterial, virucide, and fungicide activity. The proteins and
CC nucleotide sequences are useful as nutritional sources or supplements and
CC in research. The proteins are useful for treating immune deficiency and
CC disorders, which may be genetic or resulting from infections, autoimmune
CC disorders such as multiple sclerosis, systemic lupus erythematosus,
CC rheumatoid arthritis, and for treating myeloid or lymphoid cell
CC deficiencies such as anaemias by regulating haematopoiesis. The proteins
CC are also useful in compositions for bone, cartilage, tendon, ligament
CC and/or nerve tissue growth or regeneration, for wound healing, tissue
CC repair and replacement and in the treatment of central and peripheral
CC ulcers. Other uses include in the treatment of wounds and peripheral
CC nervous system and neuropathies such as Alzheimer's and Parkinson's
CC diseases and Shy-Drager syndrome, and mechanical and traumatic disorders,
CC such as spinal cord disorders, head trauma and stroke. The proteins may
CC also be used as a contraceptive, and for treating coagulation disorders
CC such as haemophilias. The protein and nucleotide sequences with cadherin
CC activity are useful for treating cancer. Other uses for the protein
CC include for inhibiting the growth, infection or function of, or killing,
CC infectious agents such as bacteria, virus, fungi and other parasites, for
CC effecting bodily characteristics such as height, weight, hair colour,
CC effecting biorhythms or cardiac cycles or rhythms, effecting metabolism,
CC catabolism, anabolism, processing, utilization, storage or elimination of
CC dietary fat, lipid, protein, carbohydrate, vitamins, minerals, cofactors,
CC effecting behavioural characteristics, providing analgesic effects and
CC for treating hyperproliferative disorders such as psoriasis
XX
SQ Sequence 431 AA;
Query Match 100.0%; Score 2211; DB 3; Length 431;
Best Local Similarity 100.0%; Pred. NO. 4.9e-173;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MFEGGEGSLTYVILICFLTRLRSASQCLKSLKSLDVEDVIDIQSLSGIRGNEPVYSTQ 60
Db 1 MFEGGEGSLTYVILICFLTRLRSASQCLKSLKSLDVEDVIDIQSLSGIRGNEPVYSTQ 60
Qy 61 EDCINSCCSTKNISGDKACNLMIFDTRKTARQPCNYLFFCFNEEACPLKPAKGLMSYRII 120
Db 61 EDCINSCCSTKNISGDKACNLMIFDTRKTARQPCNYLFFCFNEEACPLKPAKGLMSYRII 120
Qy 121 TDFPPLTRNLPSELPOEDSLHGHQFSQAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD 180
Db 121 TDFPPLTRNLPSELPOEDSLHGHQFSQAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD 180
Qy 181 HLEKLFKMDASQQLAYKEKGHSQSQFSDQEIHLHPENVSALPATVAVASPHTTSA 240
Db 181 HLEKLFKMDASQQLAYKEKGHSQSQFSDQEIHLHPENVSALPATVAVASPHTTSA 240
Qy 241 TPKEPATLLPTNASVTPSGTSQPLATTAPPVTTVTSQPTTLISTVTRAAATLQAMATT 300
Db 241 TPKEPATLLPTNASVTPSGTSQPLATTAPPVTTVTSQPTTLISTVTRAAATLQAMATT 300
Qy 301 AVLTTTQAPDTSKGSLETTIPFTEISNLTLNTGNVYNPTALSMSNVESSTMNKTASWEGR 360
Db 301 AVLTTTQAPDTSKGSLETTIPFTEISNLTLNTGNVYNPTALSMSNVESSTMNKTASWEGR 360
Qy 361 EASPGSSSQSVNPNQYGLPEKFKWLLIGSLFGVLFLVIGLVLLGRILSLRKRYSRL 420
Db 361 EASPGSSSQSVNPNQYGLPEKFKWLLIGSLFGVLFLVIGLVLLGRILSLRKRYSRL 420
Qy 421 DYLINGIYVDI 431
Db 421 DYLINGIYVDI 431
RESULT 5
ID AAB95464 standard; protein; 431 AA.
XX AAB95464;
AC AAB95464;
XX
DT 26-JUN-2001 (first entry)
XX

DE Human protein sequence SEQ ID NO:17950.
 XX
 KW Human; primer; detection; diagnosis; antisense therapy; gene therapy.
 XX
 OS Homo sapiens.
 XX
 PN EP1074617-A2.
 XX
 PD 07-FEB-2001.
 XX
 XX 28-JUL-2000; 2000EP-00116126.
 XX
 PR 29-JUL-1999; 99JP-00248036.
 PR 27-AUG-1999; 99JP-00300253.
 PR 11-JAN-2000; 2000JP-00118776.
 PR 02-MAY-2000; 2000JP-00183767.
 PR 09-JUN-2000; 2000JP-00241899.
 XX
 XX (HELI-) HELIX RES INST.
 PA
 PI Ota T, Isoqai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;
 PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
 XX
 DR WPI; 2001-318749/34.
 XX
 XX Primer sets for synthesizing polynucleotides, particularly the 5602 full-length cDNAs defined in the specification, and for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs.
 PT
 PT
 PT
 PT
 XX
 XX Claim 8; SEQ ID NO 17950; 2537pp + Sequence Listing; English.
 XX
 CC The present invention describes primer sets for synthesizing 5602 full-length cDNAs defined in the specification. Where a primer set comprises:
 CC (a) an oligo-dT primer and an oligonucleotide complementary to the
 CC complementary strand of a polynucleotide which comprises one of the 5602
 CC nucleotide sequences defined in the specification, where the
 CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination
 CC of an oligonucleotide comprising a sequence complementary to the
 CC complementary strand of a polynucleotide which comprises a 5'-end
 CC sequence and an oligonucleotide comprising a sequence complementary to a
 CC polynucleotide which comprises a 3'-end sequence, where the
 CC oligonucleotide comprises at least 15 nucleotides and the combination of
 CC the 5'-end sequence/3'-end sequence is selected from those defined in the
 CC specification. The primer sets can be used in antisense therapy and in
 CC gene therapy. The primers are useful for synthesizing polynucleotides,
 CC particularly full-length cDNAs. The primers are also useful for the
 CC detection and/or diagnosis of the abnormality of the proteins encoded by
 CC the full-length cDNAs. The primers allow obtaining of the full-length
 CC cDNAs easily without any specialised methods. AAH03166 to AAH13628 and
 CC AAH13633 to AAH18742 represent human cDNA sequences; AAB92446 to AAB95893
 CC represent human amino acid sequences; and AAH13629 to AAH13632 represent
 CC oligonucleotides, all of which are used in the exemplification of the
 CC present invention
 XX
 XX Sequence 431 AA;
 SQ
 Query Match 100.0%; Score 2211; DB 4; Length 431;
 Best Local Similarity 100.0%; Pred. No. 4.9e-173;
 Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MFPGGSGSYTYLTVIICFLTRLASQNCCLKSLEDWIDIOSLSKRGNGNEPVYTSQ 60
 DB 1 MFPGGSGSYTYLTVIICFLTRLASQNCCLKSLEDWIDIOSLSKRGNGNEPVYTSQ 60
 QY 61 EDCINSCCKTNISGDKACNLMIFFDKTKARQNCYLFPCNEEACPLKPAKGLMSYRII 120
 DB 61 EDCINSCCKTNISGDKACNLMIFFDKTKARQNCYLFPCNEEACPLKPAKGLMSYRII 120
 QY 121 TDFPSLTRNLPSQELPQESLLHGQFSQAVTPPLAHHTDYSKPTDISWRDITLSQKFGSSD 180
 DB 121 TDFPSLTRNLPSQELPQESLLHGQFSQAVTPPLAHHTDYSKPTDISWRDITLSQKFGSSD 180

QY 181 HLEKLFKMDASAQLLAYKEKGHSQSSQFSSDOEIAHLLPENVSALPATVAVASPHTTSA 240
 DB 181 HLEKLFKMDASAQLLAYKEKGHSQSSQFSSDOEIAHLLPENVSALPATVAVASPHTTSA 240
 QY 241 TPKPATLLPTNASVTPSGTSQPOLATTAPVTVTSQPPPTLLISTVFTTAAATLOAMATT 300
 DB 241 TPKPATLLPTNASVTPSGTSQPOLATTAPVTVTSQPPPTLLISTVFTTAAATLOAMATT 300
 QY 301 AVLTTFQAPTDSKGSLETIPTEISNLTNGVNVNPTALSMSNVESSTMNKTASWEGR 360
 DB 301 AVLTTFQAPTDSKGSLETIPTEISNLTNGVNVNPTALSMSNVESSTMNKTASWEGR 360
 QY 361 EASPGSSQSGVPENQYGLPFKWLIGSLLFGVLFVLVGLLGRILSESLEKRYSL 420
 DB 361 EASPGSSQSGVPENQYGLPFKWLIGSLLFGVLFVLVGLLGRILSESLEKRYSL 420
 QY 421 DYLINGIYVDI 431
 DB 421 DYLINGIYVDI 431

RESULT 6
 AAB65299 ID AAB65299 standard; protein; 431 AA.
 XX
 AC AAB65299;
 XX
 DT 02-APR-2001 (first entry)
 XX
 DE Human PRO361 protein sequence SEQ ID NO:515.
 XX

KW Human; secreted and transmembrane protein; PRO; cytostatic; cell death;
 KW cancer; chromosomal mapping; gene mapping; tissue typing;
 XX diagnostic assay.
 OS Homo sapiens.
 XX WO200073454-A1.
 XX
 PD 07-DEC-2000.
 XX
 PF 30-MAR-2000; 2000WO-US008439.
 XX

PR 02-JUN-1999; 99WO-US012252.
 PR 23-JUN-1999; 99US-0141037P.
 PR 07-JUL-1999; 99US-0143048P.
 PR 20-JUL-1999; 99US-0144758P.
 PR 26-JUL-1999; 99US-0145698P.
 PR 28-JUL-1999; 99US-0146222P.
 PR 17-AUG-1999; 99US-0149396P.
 PR 15-SEP-1999; 99WO-US021090.
 PR 15-SEP-1999; 99WO-US021547.
 PR 08-OCT-1999; 99US-0158663P.
 PR 30-NOV-1999; 99WO-US028313.
 PR 01-DEC-1999; 99WO-US030095.
 PR 16-DEC-1999; 99WO-US030911.
 PR 20-DEC-1999; 99WO-US030911.
 PR 05-JAN-2000; 2000WO-US000219.
 PR 06-JAN-2000; 2000WO-US000376.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 18-FEB-2000; 2000WO-US004341.
 PR 22-FEB-2000; 2000WO-US004914.
 PR 24-FEB-2000; 2000WO-US005004.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 15-MAR-2000; 2000WO-US006884.
 PR 20-MAR-2000; 2000WO-US007377.
 XX

(GETH) GENENTECH INC.

PA Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
 PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
 PI Grimaldi CJ, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;

PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
PI Zhang Z;
XX WPI; 2001-032160/04.
DR N-PSDB; AAF44268.
XX PRO polynucleotides used to produce polypeptides used to target bioactive
PT molecules such as toxins, radiolabels or antibodies, to specific cells,
PT to cause targeted cell death.
XX Claim 12; Fig 328; 935pp; English.
XX The present invention describes human secreted and transmembrane PRO
XX proteins. The PRO proteins have cytotstatic activity. The PRO proteins can
XX be used for targeted delivery of bioactive molecules, such as toxins,
XX radiolabels or antibodies, that cause cell death. PRO nucleotide
XX sequences, and their fragments, can be used as hybridisation probes, in
XX DNA. They may also be used to produce transgenic animals which are used
XX to develop and screen therapeutically useful reagents. The PRO nucleotide
XX and protein sequence can be used for tissue typing and in treating
XX cancer. Anti-PRO antibodies can be used in diagnostic assays. AAF44270 to
XX AAF4470 represent PCR primers and hybridisation probes used in the
XX isolation of human PRO sequences. AAF44087 to AAF44269 and AAB65154 to
XX AAB65300 represent human PRO polynucleotide and protein sequences given
XX in the exemplification of the present invention
XX Sequence 431 AA;
SQ
Query Match 100.0%; Score 2211; DB 4; Length 431;
Best Local Similarity 100.0%; Pred. No. 4.9e-173;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MFFGEGSLTVLIIICPLTURLSASQCNLKKSLDVEDVVIDIQSSLSKGIQNEPVTSTQ 60
Db 1 MFFGEGSLTVLIIICPLTURLSASQCNLKKSLDVEDVVIDIQSSLSKGIQNEPVTSTQ 60
Qy 61 EDCINSCSTKNIISGDKACNLMIFDTRKTARQPCNYLFFCPNEBACPLKPAKGLMSYRII 120
Db 61 EDCINSCSTKNIISGDKACNLMIFDTRKTARQPCNYLFFCPNEBACPLKPAKGLMSYRII 120
Qy 121 TDFPSLIRNLPSELQPSDLSLHGQFSQAVTFLAHHTDYSKPTDISWRDLSQKFGSSD 180
Db 121 TDFPSLIRNLPSELQPSDLSLHGQFSQAVTFLAHHTDYSKPTDISWRDLSQKFGSSD 180
Qy 181 HLEKLFKMDASAQLLAYKEGHQSOSQFSDDQIEAHLLPENVSALPATVAVASPHITSA 240
Db 181 HLEKLFKMDASAQLLAYKEGHQSOSQFSDDQIEAHLLPENVSALPATVAVASPHITSA 240
Qy 241 TPKPATLLPTNASVTPSGTSPQLATTAPPVTVTSQPTTLISTVFTRAAATLQAMATT 300
Db 241 TPKPATLLPTNASVTPSGTSPQLATTAPPVTVTSQPTTLISTVFTRAAATLQAMATT 300
Qy 301 AVLTTTFOAPTDSKGSLETIPFTISNLTNTGNVYNPTALSMNSVESSTWNKTASWEGR 360
Db 301 AVLTTTFOAPTDSKGSLETIPFTISNLTNTGNVYNPTALSMNSVESSTWNKTASWEGR 360
Qy 361 EASPGSSQSGVPENQYGLPEKMLLIGSLIFGVLFVLIGVLGRILSESIRKRYSL 420
Db 361 EASPGSSQSGVPENQYGLPEKMLLIGSLIFGVLFVLIGVLGRILSESIRKRYSL 420
Qy 421 DYLINGIYVDI 431
Db 421 DYLINGIYVDI 431
RESULT 7
ABU55934
ID ABU55934 standard; protein; 431 AA.
XX
AC ABU55934;
XX
DT 26-MAR-2003 (first entry)

XX Human secreted/transmembrane protein PRO361.
DE
XX Human; PRO; secreted protein; transmembrane protein; anti-HIV;
KW cytotstatic; antiarteriosclerotic; antiinflammatory; antidiabetic;
KW cardiant; AIDS; acquired immunodeficiency syndrome; cancer;
KW atherosclerosis; inflammatory disease; diabetic complication;
KW cardiac injury; organ failure.
XX
OS Homo sapiens.
XX
XX US2002142959-A1.
XX
XX 03-OCT-2002.
XX
XX 31-AUG-2001; 2001US-00944654.
XX
XX 16-SEP-1998; 98WO-US019330.
XX 01-DEC-1998; 98WO-US025108.
XX 22-JUN-1999; 99WO-US012252.
XX 15-SEP-1999; 99WO-US021090.
XX 30-NOV-1999; 99WO-US028313.
XX 30-NOV-1999; 99WO-US028409.
XX 01-DEC-1999; 99WO-US028301.
XX 16-DEC-1999; 99WO-US030095.
XX 11-FEB-2000; 2000WO-US003565.
XX 22-FEB-2000; 2000WO-US004414.
XX 02-MAR-2000; 2000WO-US005841.
XX 30-MAR-2000; 2000WO-US008439.
XX 22-MAY-2000; 2000WO-US014042.
XX 28-JUL-2000; 2000WO-US020710.
XX 01-DEC-2000; 2000WO-US02678.
XX 28-FEB-2001; 2001WO-US006520.
XX 25-MAY-2001; 2001US-00866028.
XX
XX (GETH) GENENTECH INC.
XX
XX Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
PI Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WI;
XX
XX WPI; 2003-174141/17.
DR N-PSDB; ABX75504.
XX
XX New isolated PRO polypeptide and encoding nucleic acid, useful for the
PT diagnosis and treatment of disorders associated with the PRO polypeptide,
PT such as AIDS, cancer, atherosclerosis, inflammatory disease and diabetes.
XX
XX Claim 12; Fig 32; 178pp; English.
XX
XX The invention relates to an isolated PRO polypeptide (a secreted or
XX transmembrane protein) comprising: (a) at least 80% sequence identity or
XX positives when compared to any of 15 sequences, fully defined in the
XX specification, lacking or with its associated signal peptide; or (b) at
XX least 80% sequence identity to a sequence encoded by the full-length
XX coding sequence of a DNA deposited in the American Type Culture
XX Collection (ATCC). Also included are: (1) an isolated nucleic acid
XX comprising: (a) at least 80% sequence identity to a nucleotide sequence
XX that encodes a PRO protein; (b) at least 80% sequence identity to a
XX nucleotide sequence or full-length coding sequence with any of 15 fully
XX defined sequences of 957-3441 base pairs, given in the specification; or
XX (c) at least 80% sequence identity to a full-length coding sequence of a
XX DNA deposited under ATCC Accession No. 209526, 209508, 209524, 209528,
XX 209530, 209523, 209492, 209532, 209531, 209529, 209527, 209570, 209618,
XX 209621 or 209619; (2) a vector comprising the nucleic acid; (3) a host
XX cell comprising the vector which, when cultured under conditions suitable
XX for expression of the PRO polypeptide, produces the PRO protein; (4) a
XX chimeric molecule comprising PRO fused to a heterologous amino acid
XX sequence; and (5) an anti-PRO antibody. The methods and compositions of
XX the present invention are useful for the diagnosis and treatment of
XX disorders associated with the PRO polypeptide, such as AIDS (acquired
XX immunodeficiency syndrome), cancer, atherosclerosis, inflammatory
XX disease, diabetic complications, cardiac injury and organ failure. The

Novel human secreted or transmembrane protein PRO361.

Human: PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;
cardiac insufficiency disorder; cancer; tumour; immune response;
adrenal cortical capillary endothelial growth; c-fos induction;
vascular endothelial growth factor inhibition; VEGF inhibition;
endothelial cell growth inhibitor; T-lymphocytes stimulation;
retinal neurons cell survival; rod photoreceptor cell survival;
retinal disorder; retinitis pigmentosa; kidney disorder;
mamalian kidney mesangial cell proliferation; Berger disease;
dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;
chondrocyte redifferentiation; sports injury; arthritis.

Homo sapiens.

US2002132252-A1.

19-SEP-2002.

14-NOV-2001; 2001US-00990442.

16-JUN-1997; 97US-0049787P.

17-OCT-1997; 97US-0062250P.

05-NOV-1997; 97WO-US020069.

12-NOV-1997; 97US-0065186P.

13-NOV-1997; 97US-0065311P.

24-NOV-1997; 97US-0065770P.

25-FEB-1998; 98US-0075945P.

20-MAR-1998; 98US-0078910P.

28-APR-1998; 98US-0083322P.

07-MAY-1998; 98US-0084600P.

28-MAY-1998; 98US-0087106P.

02-JUN-1998; 98US-0087607P.

02-JUN-1998; 98US-0087609P.

02-JUN-1998; 98US-0087759P.

03-JUN-1998; 98US-0087827P.

04-JUN-1998; 98US-0088021P.

04-JUN-1998; 98US-0088025P.

04-JUN-1998; 98US-0088028P.

04-JUN-1998; 98US-0088028P.

04-JUN-1998; 98US-0088029P.

04-JUN-1998; 98US-0088030P.

04-JUN-1998; 98US-0088033P.

04-JUN-1998; 98US-0088126P.

05-JUN-1998; 98US-0088126P.

05-JUN-1998; 98US-0088212P.

05-JUN-1998; 98US-0088217P.

09-JUN-1998; 98US-0088655P.

10-JUN-1998; 98US-0088734P.

10-JUN-1998; 98US-0088738P.

10-JUN-1998; 98US-0088742P.

10-JUN-1998; 98US-0088810P.

10-JUN-1998; 98US-0088824P.

05-JAN-1999; 99WO-US000106.

08-MAR-1999; 99WO-US005028.

02-JUN-1999; 99WO-US012252.

15-SEP-1999; 99WO-US021090.

15-SEP-1999; 99WO-US021547.

30-NOV-1999; 99WO-US028313.

01-DEC-1999; 99WO-US028301.

01-DEC-1999; 99WO-US028634.

16-DEC-1999; 99WO-US030095.

20-DEC-1999; 99WO-US030911.

06-JAN-2000; 2000WO-US000219.

06-JAN-2000; 2000WO-US000376.

11-FEB-2000; 2000WO-US003565.

18-FEB-2000; 2000WO-US004341.

22-FEB-2000; 2000WO-US004414.

24-FEB-2000; 2000WO-US004914.

24-FEB-2000; 2000WO-US005004.

02-MAR-2000; 2000WO-US005841.

10-MAR-2000; 2000WO-US006319.

15-MAR-2000; 2000WO-US006884.

20-MAR-2000; 2000WO-US007377.

30-MAR-2000; 2000WO-US008439.

15-MAY-2000; 2000WO-US013358.

17-MAY-2000; 2000WO-US013705.

22-MAY-2000; 2000WO-US014042.

30-MAY-2000; 2000WO-US014941.

02-JUN-2000; 2000WO-US015264.

28-JUL-2000; 2000WO-US020710.

11-AUG-2000; 2000WO-US022031.

23-AUG-2000; 2000WO-US023522.

24-AUG-2000; 2000WO-US023328.

08-NOV-2000; 2000WO-US030952.

01-DEC-2000; 2000WO-US032678.

28-FEB-2001; 2001WO-US006520.

01-JUN-2001; 2001WO-US017800.

20-JUN-2001; 2001WO-US019692.

29-JUN-2001; 2001WO-US021066.

09-JUL-2001; 2001WO-US021735.

28-AUG-2001; 2001US-00941992.

(GETH) GENENTECH INC.

Askenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
Zhang Z;

WPI; 2003-247083/24.

N-PSDB; ABX80473.

Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346
and PRO1375, which stimulate proliferation of stimulated T-lymphocytes
are therapeutically useful for enhancing immune response and in cancer
treatments.

Claim 12; Fig 328; 648pp; English.

The invention describes an isolated human PRO polypeptide. The PRO
polypeptides are useful in detecting PRO polypeptides in a sample, in
linking a bioactive molecule to a cell expressing a PRO polypeptide, and
in modulating at least one biological activity of a cell expressing a PRO
polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus
useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186
stimulate adrenal cortical capillary endothelial growth, and PRO536,
PRO943, PRO828, PRO826, PRO1068 or PRO535, PRO826, PRO819, PRO1126,
PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus
useful for treating conditions or disorders where angiogenesis would be
beneficial, e.g. wound healing and antagonist of this polypeptide are
useful for treating cancerous tumours. PRO812 inhibits vascular
endothelial growth factor (VEGF) stimulated proliferation of endothelial
cells and is thus useful for inhibiting endothelial cell growth in
mammals which would be beneficial in inhibiting tumour growth. PRO826,

CC PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of
CC stimulated T-lymphocytes and are therapeutically useful for enhancing
CC immune response. PRO826, PRO1068 or PRO1132 enhance survival of
CC retinal neurons cells (PRO1132 is also enhances survival/proliferation of
CC rod photoreceptor cells) and therefore are useful for treating retinal
CC disorders of injuries, e.g. retinitis pigmentosa, AMD. PRO819, PRO813
CC and PRO1066 induce proliferation of mammalian kidney mesangial cells,
CC and therefore are useful for treating kidney disorders associated with
CC decreased mesangial cell function such as Berger disease or other
CC nephropathies associated with dermatitis, herpeticiformis or Crohn's
CC disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the
CC proliferation and/or redifferentiation of chondrocytes in culture and are
CC thus useful for treating sports injuries, and arthritis. This is the
CC amino acid sequence of a novel human PRO protein
XX Sequence 431 AA;
SQ

Query Match 100.0%; Score 2211; DB 6; Length 431;
Best Local Similarity 100.0%; Pred. No. 4.9e-173;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MFFGGESLYTVIIICFLRLSASQNCCLKSLEDVVIDIQSSLKGIRGNEPVTSTQ 60
DB 1 MFFGGESLYTVIIICFLRLSASQNCCLKSLEDVVIDIQSSLKGIRGNEPVTSTQ 60
QY 61 EDCINCCSTKNISGDKACNLMIFDTRKTARQPCNYLFFCPNEEACPLKPAKGLMSYRII 120
DB 61 EDCINCCSTKNISGDKACNLMIFDTRKTARQPCNYLFFCPNEEACPLKPAKGLMSYRII 120
QY 121 TDFPSLTRLNPSQLPQEDSLHGGQFSQAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD 180
DB 121 TDFPSLTRLNPSQLPQEDSLHGGQFSQAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD 180
QY 181 HLEKLFQWDEASQALLAYKKGHSQSQFSQSDOBIAHLHPENVSALPATVAVASPHHTSA 240
DB 181 HLEKLFQWDEASQALLAYKKGHSQSQFSQSDOBIAHLHPENVSALPATVAVASPHHTSA 240
QY 241 TPKPATLLPTNASVTPSGTSQPOLATTAPVTTVTTSQPTTLTSTVETRAAATLQAMATT 300
DB 241 TPKPATLLPTNASVTPSGTSQPOLATTAPVTTVTTSQPTTLTSTVETRAAATLQAMATT 300
QY 301 AVLTFTTQAPDTSKGSLETIPFTFISNLTNTGNVYNPTALSMSNVESSTMNKITASWEGR 360
DB 301 AVLTFTTQAPDTSKGSLETIPFTFISNLTNTGNVYNPTALSMSNVESSTMNKITASWEGR 360
QY 361 EASPGSSSQSVENQYGLPFKWLIGSLFLGVLFLVIGLVLGRILSLSLRKRYSL 420
DB 361 EASPGSSSQSVENQYGLPFKWLIGSLFLGVLFLVIGLVLGRILSLSLRKRYSL 420
QY 421 DYLINGIYVDI 431
DB 421 DYLINGIYVDI 431

RESULT 10
ABU82704
ID ABU82704 standard; protein; 431 AA.
XX AC ABU82704;
XX DT 26-JUN-2003 (first entry)
XX DE Human secreted/transmembrane protein PRO361.
XX KW Human; PRO; secreted protein; transmembrane protein;
KW cardiac insufficiency disorders; angiogenesis; wound healing;
KW cancerous tumour; immune response; retinal disorder; sight loss;
KW retinitis pigmentosa; age-related macular degeneration; AMD;
KW kidney disorder; Berger disease; nephropathy; dermatitis; herpeticiformis;
KW Crohn's disease; sports injury; arthritis.
XX OS Homo sapiens.
XX

PN US2003032023-A1.
XX 13-FEB-2003.
XX 14-NOV-2001; 2001US-00990711.
XX 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US020069.
PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.
PR 07-MAY-1998; 98US-0084600P.
PR 28-MAY-1998; 98US-0087106P.
PR 02-JUN-1998; 98US-0087607P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088026P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 03-JUN-1998; 98US-0088555P.
PR 10-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088742P.
PR 10-JUN-1998; 98US-0088810P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089947P.
PR 19-JUN-1998; 98US-0089948P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 23-JUN-1998; 98US-0090254P.
PR 23-JUN-1998; 98US-0090349P.
PR 23-JUN-1998; 98US-0090355P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090431P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090445P.
PR 24-JUN-1998; 98US-0090472P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 24-JUN-1998; 98US-0090542P.


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PR 24-JUN-1998; 98US-0090557P.
PR 25-JUN-1998; 98US-0090676P.
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PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 01-JUL-1998; 98US-0091360P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
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PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091633P.
PR 02-JUL-1998; 98US-0091646P.
PR 02-JUL-1998; 98US-0091673P.
PR 07-JUL-1998; 98US-0091978P.
PR 07-JUL-1998; 98US-0091982P.
PR 09-JUL-1998; 98US-0092182P.
PR 10-JUL-1998; 98US-0092472P.
PR 20-JUL-1998; 98US-0093339P.
PR 30-JUL-1998; 98US-0094651P.
PR 04-AUG-1998; 98US-0095282P.
PR 04-AUG-1998; 98US-0095285P.
PR 04-AUG-1998; 98US-0095301P.
PR 04-AUG-1998; 98US-0095302P.
PR 04-AUG-1998; 98US-0095318P.
PR 04-AUG-1998; 98US-0095321P.
PR 04-AUG-1998; 98US-0095323P.
PR 10-AUG-1998; 98US-0095916P.
PR 10-AUG-1998; 98US-0095929P.
PR 10-AUG-1998; 98US-0096012P.
PR 11-AUG-1998; 98US-0096143P.
PR 11-AUG-1998; 98US-0096146P.
PR 12-AUG-1998; 98US-0096329P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096768P.
PR 17-AUG-1998; 98US-0096773P.
PR 17-AUG-1998; 98US-0096791P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096894P.
PR 17-AUG-1998; 98US-0096895P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096950P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0096960P.
PR 19-AUG-1998; 98US-0097022P.
PR 19-AUG-1998; 98US-0097141P.
PR 20-AUG-1998; 98US-0097218P.
PR 24-AUG-1998; 98US-0097661P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0097979P.
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PR 31-AUG-1998; 98US-0098525P.
PR 16-SEP-1998; 98US-0100634P.
PR 16-SEP-1998; 98US-01009330.
PR 17-SEP-1998; 98US-0100858P.
PR 17-SEP-1998; 98US-01019437.
PR 07-OCT-1998; 98US-01021141.
PR 01-DEC-1998; 98US-01025108.
PR 22-DEC-1998; 98US-0113296P.
PR 05-JAN-1999; 98US-01000106.

PR 08-MAR-1999; 99WO-US005028.
PR 12-MAR-1999; 99US-0123957P.
PR 02-JUN-1999; 99WO-US012252.
PR 23-JUN-1999; 99US-0141037P.
PR 07-JUL-1999; 99US-0143048P.
PR 20-JUL-1999; 99US-0144758P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 17-AUG-1999; 99US-0149396P.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 08-OCT-1999; 99US-0158663P.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 16-DEC-1999; 99WO-US028634.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 05-JAN-2000; 200WO-US000219.
PR 05-JAN-2000; 200WO-US000376.
PR 11-FEB-2000; 200WO-US003565.
PR 11-FEB-2000; 200WO-US004341.
PR 22-FEB-2000; 200WO-US004414.
PR 24-FEB-2000; 200WO-US004914.
PR 24-FEB-2000; 200WO-US005004.
PR 02-MAR-2000; 200WO-US005841.
PR 10-MAR-2000; 200WO-US006319.
PR 15-MAR-2000; 200WO-US006884.
PR 20-MAR-2000; 200WO-US007377.
PR 30-MAR-2000; 200WO-US008439.
PR 15-MAY-2000; 200WO-US013358.
PR 17-MAY-2000; 200WO-US013705.
PR 22-MAY-2000; 200WO-US014042.
PR 30-MAY-2000; 200WO-US014941.
PR 02-JUN-2000; 200WO-US015264.
PR 23-JUN-2000; 200US-0213637P.
PR 28-JUL-2000; 200WO-US020710.
PR 11-AUG-2000; 200WO-US0220311.

Query Match 100.0%; Score 2211; DB 6; Length 431;
Best Local Similarity 100.0%; Pred. No. 4,9e-173;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MFFGEGSLTVLVIICFLTLRLSASQNCCLKSLEDVVIDIQSSLSKGRGNEPVYTSQ 60
Db 1 MFFGEGSLTVLVIICFLTLRLSASQNCCLKSLEDVVIDIQSSLSKGRGNEPVYTSQ 60

Qy 61 EDCINSCCSTKNIISGDKACNLMI FDRKTARQPCNYLFFCPCNEEACPLKPAKGLMSYRII 120
Db 61 EDCINSCCSTKNIISGDKACNLMI FDRKTARQPCNYLFFCPCNEEACPLKPAKGLMSYRII 120

Qy 121 TDFPSLTRLNLPSELPOEDSLHLHGQFSQAVTPLAHHHTDYSKPTDISWRDTLSQKFGSSD 180
Db 121 TDFPSLTRLNLPSELPOEDSLHLHGQFSQAVTPLAHHHTDYSKPTDISWRDTLSQKFGSSD 180

Qy 181 HLEKLFKMDSEASQALLAYKEKGHSQSSQSFSSDQBIHLPPENVSAIPATVAVASPHTTSA 240
Db 181 HLEKLFKMDSEASQALLAYKEKGHSQSSQSFSSDQBIHLPPENVSAIPATVAVASPHTTSA 240

Qy 241 TPKPATLLPTNASVTPSGTSQPLATTPPVTTVTSQPTTLISTVFTTAAATLOAMATT 300
Db 241 TPKPATLLPTNASVTPSGTSQPLATTPPVTTVTSQPTTLISTVFTTAAATLOAMATT 300

Qy 301 AVLTTTFOAPTDSKGSLETIPFTBISNLTLNTGNVYNTALSMNSVESSTWNKTASWGR 360
Db 301 AVLTTTFOAPTDSKGSLETIPFTBISNLTLNTGNVYNTALSMNSVESSTWNKTASWGR 360

Qy 361 EASFGSSSQSVPENQYGLPEKFKLLIGSLFGVLFLVGLVLLGRILSESILRRKRYGRL 420
Db 361 EASFGSSSQSVPENQYGLPEKFKLLIGSLFGVLFLVGLVLLGRILSESILRRKRYGRL 420

Qy 421 DYLINGIYVDI 431
Db 421 DYLINGIYVDI 431
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CC PRO, and in affinity purification of PRO from recombinant cell culture or
CC natural sources. The sequences presented in ABU60478-ABU60624 are the PRO
CC polynucleotides of the invention. Note: The sequence data for this patent
CC is also available in electronic format from USPTO at
CC seqdata.uspto.gov/sequence.html

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PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-JUN-2001; 2001WO-US017800.
PR 22-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 28-AUG-2001; 2001US-00941992.
XX
XX (GETH ) GENENTECH LTD.
XX
XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
XX Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
XX Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
XX Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
XX Zhang Z;
XX
XX WPI; 2003-102117/09.
XX N-PSDB; ABX64297.
XX
XX Novel secreted and transmembrane polypeptide for modulating biological
XX activity of cell expressing the polypeptide, identifying agonists or
XX antagonists of polypeptide, and as molecular weight markers.
XX
XX Claim 12; Fig 328; 649pp; English.
XX
XX The present invention relates to the isolation of novel human PRO
XX polypeptides, and the polynucleotide sequences encoding them. The PRO
XX polypeptides are secreted and transmembrane proteins. The PRO
XX polypeptides are useful for detecting other PRO polypeptides, for linking
XX bioactive molecules to cells expressing PRO polypeptides, for modulating
XX biological activities of cells expressing PRO polypeptides, and for
XX identifying agonists or antagonists. The polynucleotide sequences
XX encoding PRO polypeptides are useful as hybridisation probes, in
XX chromosome and gene mapping, in the generation of antisense RNA and DNA,
XX in the preparation of PRO polypeptides, for generating transgenic animals
XX or knockout animals, to construct hybridisation probes for mapping the
XX gene which encodes the PRO polypeptide, and for the genetic analysis of
XX individuals with genetic disorders, in gene therapy, for chromosome
XX identification, as chromosome markers, and for generating probes for PCR,
XX Northern analysis, Southern analysis and Western analysis. ABU13860.
XX ABU14006 represent the human PRO polypeptides of the invention. Note: The
XX sequence data for this patent was obtained in electronic format directly
XX from the USPTO web site at seqdata.uspto.gov/psipsdIdentify.html
XX
XX Sequence 431 AA;
XX
XX Query Match
XX Best Local Similarity 100.0%; Score 2211; DB 6; Length 431;
XX Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 MFFGEGSLTVTVIICFLTRLASQNLCKKSLDVEDVVDIQSSLGIRNEPVYTSQ 60
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XX 1 MFFGEGSLTVTVIICFLTRLASQNLCKKSLDVEDVVDIQSSLGIRNEPVYTSQ 60
XX
XX 61 EDCINSCCSTKNISGDKACNLMIETDTRKTRQPCNYLFFCNEEACPLKPAKGLMSYRII 120
XX
XX 61 EDCINSCCSTKNISGDKACNLMIETDTRKTRQPCNYLFFCNEEACPLKPAKGLMSYRII 120
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XX 121 TDFPSLTRLNPSQELPOEDSLHLLQFQSOAVTPLAHHTDYSKPTDTSWRDTLSQKFGSSD 180
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XX 121 TDFPSLTRLNPSQELPOEDSLHLLQFQSOAVTPLAHHTDYSKPTDTSWRDTLSQKFGSSD 180
XX
XX 181 HLEKLFKMDASAQLLAYKEKGHSQSSQFSSDQIAHLLENVSALPATVAVASPHYTSA 240
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XX 181 HLEKLFKMDASAQLLAYKEKGHSQSSQFSSDQIAHLLENVSALPATVAVASPHYTSA 240
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XX

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RESULT 13

ABU60244

ID ABU60244 standard; protein; 431 AA.

XX

AC ABU60244;

XX

DT 24-APR-2003 (first entry)

XX

DE Human PRO polypeptide #15.

XX

KW Human; PRO; secreted polypeptide; transmembrane polypeptide; cancer;

KW inflammatory disease; atherosclerosis; cardiac injury; AIDS; infertility;

KW birth defect; premature aging; diabetes; dog; cat; horse;

KW acquired immunodeficiency syndrome; cow; sheep; pig; goat; rabbit;

KW industry; cytostatic; antiinflammatory; cardiant; antiinfertility;

KW anti-HIV; antiarteriosclerotic; antidiabetic.

XX

OS Homo sapiens.

XX

XX US2002132768-A1.

PN

PD 19-SEP-2002.

XX

PF 31-AUG-2001; 2001US-00945015.

XX

PR 03-DEC-1997; 97US-0067411P.

PR 11-DEC-1997; 97US-0069278P.

PR 11-DEC-1997; 97US-0069334P.

PR 12-DEC-1997; 97US-0069335P.

PR 13-DEC-1997; 97US-0069425P.

PR 16-DEC-1997; 97US-0069694P.

PR 16-DEC-1997; 97US-0069896P.

PR 17-DEC-1997; 97US-0069702P.

PR 17-DEC-1997; 97US-0069870P.

PR 18-DEC-1997; 97US-0068017P.

PR 05-JAN-1998; 98US-0070440P.

PR 09-FEB-1998; 98US-0074086P.

PR 25-FEB-1998; 98US-0075945P.

PR 16-SEP-1998; 98WO-US019330.

PR 01-DEC-1998; 98WO-US025108.

PR 16-DEC-1998; 98US-00216021.

PR 16-DEC-1998; 98US-0112850P.

PR 22-DEC-1998; 98US-00218517.

PR 22-DEC-1998; 98US-0113296P.

PR 03-MAR-1999; 99US-00254311.

PR 22-JUN-1999; 99WO-US012252.

PR 28-JUL-1999; 99US-0146222P.

PR 15-SEP-1999; 99WO-US021090.

PR 30-NOV-1999; 99WO-US028313.

PR 30-NOV-1999; 99WO-US028409.

PR 01-DEC-1999; 99WO-US028301.

PR 16-DEC-1999; 99WO-US030095.

PR 11-FEB-2000; 2000WO-US003565.

PR 22-FEB-2000; 2000WO-US004414.

PR 02-MAR-2000; 2000WO-US005841.

PR

PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 28-JUL-2000; 2000WO-US020710.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 25-MAY-2001; 2001US-00866028.
XX (GETH) GENENTECH INC.
PA Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
XX PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
PI Hillan KJ, Kijavini IJ, Napier MA, Roy MA, Tumas D, Wood WI;
XX N-PSDB; ABX89495.
DR WPI; 2003-174088/17.
XX New secreted and transmembrane polypeptides (e.g. PRO241, for use in
PT pharmaceuticals, diagnostics or bioreactors, particularly for detecting
PT or treating e.g. cancers, infertility or acquired immunodeficiency
PT syndrome in mammals.
XX Claim 1; Fig 32; 173pp; English.
XX The invention relates to a human secreted and transmembrane polypeptide
CC (PRO) and the polynucleotide encoding it. The PRO polypeptide or
CC polynucleotide is useful in pharmaceuticals, diagnostics, biosensors or
CC bioreactors. These are particularly useful for detecting or treating
CC cancers, inflammatory diseases, atherosclerosis, cardiac injury,
CC infertility, birth defects, premature aging, acquired immunodeficiency
CC syndrome (AIDS) and diabetic complications in mammals, e.g. humans, dogs,
CC cats, cattle, horses, sheep, pigs, goats or rabbits. The sequences are
CC also useful in biotechnological and medical research and in various
CC industrial applications. Sequences ABU60230-ABU60245 represent human PRO
CC polypeptides of the invention
XX SQ Sequence 431 AA;
Query Match 100.0%; Score 2211; DB 6; Length 431;
Best Local Similarity 100.0%; Pred. No. 4.9e-173;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MFFGEGSLTYTLVLCIFLTLRLSASQCLKSLDVEDVIDIQSSLKGRGNEPVYTSTQ 60
Db 1 MFFGEGSLTYTLVLCIFLTLRLSASQCLKSLDVEDVIDIQSSLKGRGNEPVYTSTQ 60
QY 61 EDCINSCSTKNIISGDKACNLMI FTRKTARQPCYLCFPCNEEACPLKAGLMSYRII 120
Db 61 EDCINSCSTKNIISGDKACNLMI FTRKTARQPCYLCFPCNEEACPLKAGLMSYRII 120
QY 121 TDFPSLTRNLPSQELPQEDSLHGFQSOAVTFLAHHTDYSKPTDISWRDTLSQKFGSSD 180
Db 121 TDFPSLTRNLPSQELPQEDSLHGFQSOAVTFLAHHTDYSKPTDISWRDTLSQKFGSSD 180
QY 181 HLEKLFKMDASAQLLAYKEKHSSOSSQFSSDQETIAHLLENVSPALPATVAVASPHHTSA 240
Db 181 HLEKLFKMDASAQLLAYKEKHSSOSSQFSSDQETIAHLLENVSPALPATVAVASPHHTSA 240
QY 241 TPKPATLPTNASVTPSGTSPQALATTAPPVTVTSQBPPTTLISTVTFRAAATLQAMATT 300
Db 241 TPKPATLPTNASVTPSGTSPQALATTAPPVTVTSQBPPTTLISTVTFRAAATLQAMATT 300
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Db 301 AVLTFTFOAPTDSKGSLETIPFTEISNLTNTGNVYNPTALSMNSVESSTWNTASWEGR 360
QY 361 EASPGSSSQGVSPENQYGLPEKMLLIGSLFGVLFLVIGLVLLGRILSESILRRKYSRL 420
Db 361 EASPGSSSQGVSPENQYGLPEKMLLIGSLFGVLFLVIGLVLLGRILSESILRRKYSRL 420
QY 421 DYLINGIYVDI 431
Db 421 DYLINGIYVDI 431

RESULT 14
ABU72590
ID ABU72590 standard; protein; 431 AA.
XX AC ABU72590;
XX DT 17-JUN-2003 (first entry)
XX DE Novel human secreted and transmembrane protein PRO361.
XX KW Human; secreted and transmembrane protein; cytostatic; anti-HIV;
KW virucide; hepatotropic; antiinflammatory; neuroprotective; gene therapy;
KW PRO; pharmaceutical; diagnostic; biosensor; bioreactor; malignancy;
KW cancer; ovarian cancer; colorectal cancer; Kaposi's sarcoma; leukaemia;
KW lymphoma; hepatitis B; multiple sclerosis; Crohn's disease;
KW drug screening.
XX OS Homo sapiens.
XX PN US2003003531-A1.
XX PD 02-JAN-2003.
XX PF 19-NOV-2001; 2001US-00989734.
XX PR 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US020069.
PR 12-NOV-1997; 97US-0085186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.
PR 07-MAY-1998; 98US-0084600P.
PR 28-MAY-1998; 98US-0087106P.
PR 02-JUN-1998; 98US-0087607P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
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PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088742P.
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PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 12-JUN-1998; 98US-0089105P.
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PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.

PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 02-JUN-1999; 99WO-US012252.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 28-AUG-2001; 2001US-00941992.
(GETH) GENENTECH INC.

XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Kijavini IU, Napier MA, Pan J, Paoni NF;
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
PI Zhang Z;

XX WPI; 2003-352829/33.
DR N-PSDB; ACA64519.

XX New genes and secreted and transmembrane polypeptides (e.g. PRO183 or
PT PRO184), useful for treating or diagnosing e.g. ovarian cancer, Kaposi's
PT sarcoma, leukemia, lymphoma, hepatitis B, multiple sclerosis or Crohn's
PT disease.

XX Claim 12; Fig 328; 663pp; English.

XX The invention describes a new isolated nucleic acid molecule comprising
CC the full length coding sequence of the DNA deposited with the American
CC Type Culture Collection (e.g. ATCC Deposit No. 209621, 552-PTA, 819-PTA,
CC 209439, 203135, etc); or a sequence with at least 80% identity to a DNA
CC encoding a PRO polypeptide. The PRO polypeptides or polynucleotides are
CC useful as pharmaceuticals, diagnostics, biosensors or bioreactors. These
CC are particularly useful for detecting or treating e.g. malignancies or
CC cancers (e.g. ovarian cancer, colorectal cancer, Kaposi's sarcoma,

CC leukaemia or lymphoma), hepatitis B, multiple sclerosis, or Crohn's
CC disease in mammals. The PRO polypeptides are useful in drug screening,
CC particularly as targets for therapeutic intervention in these diseases,
CC and in the diagnostic determination of the presence of these diseases.
CC The PRO polypeptides are also useful as molecular weight markers, or for
CC chromosome identification. The PRO genes are useful as hybridisation
CC probes, or for screening libraries of human cDNA, genomic DNA or mRNA.
CC The PRO genes may also be used in gene therapy, particularly for
CC replacing a defective gene. This is the amino acid sequence of a novel
CC human secreted and transmembrane PRO polypeptide
XX

SQ Sequence 431 AA;

Query Match 100.0%; Score 2211; DB 6; Length 431;

Best Local Similarity 100.0%; Pred. No. 4.9e-173;

Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MFFGEGSLTYTLVIICFLTLRLSASQNCLEKSLKIRGNEPVVTSTQ 60

DB 1 MFFGEGSLTYTLVIICFLTLRLSASQNCLEKSLKIRGNEPVVTSTQ 60

QY 61 EDCINSCCTKNISGDKACNLMIFDTRKTARQPCNLYLFCPNEEACPLKPKGLMSYRII 120

DB 61 EDCINSCCTKNISGDKACNLMIFDTRKTARQPCNLYLFCPNEEACPLKPKGLMSYRII 120

QY 121 TDFPSSLTRNLPSQELPQEDSLHGFQSQAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD 180

DB 121 TDFPSSLTRNLPSQELPQEDSLHGFQSQAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD 180

QY 181 HLEKLFKMDASQAQLLAYKEKHSQSSQFSSDQEIHLHPENVSALPATVAVASPHTTSA 240

DB 181 HLEKLFKMDASQAQLLAYKEKHSQSSQFSSDQEIHLHPENVSALPATVAVASPHTTSA 240

QY 241 TPKPATILLPTNASVTPSGTSQPOLATTPPVTTVTSQPTTLISTVFTAAATLQAWATT 300

DB 241 TPKPATILLPTNASVTPSGTSQPOLATTPPVTTVTSQPTTLISTVFTAAATLQAWATT 300

QY 301 AVLTTFQAPDTSKGSLETPFTEISNLTNTGNVNTALSNVSSSTMNKTASWEGR 360

DB 301 AVLTTFQAPDTSKGSLETPFTEISNLTNTGNVNTALSNVSSSTMNKTASWEGR 360

QY 361 EASPGSSSQGVPEVNYGLPFKEKLLIGSLFGVLFVLGLVLLGRILSSSLRRKRYSL 420

DB 361 EASPGSSSQGVPEVNYGLPFKEKLLIGSLFGVLFVLGLVLLGRILSSSLRRKRYSL 420

QY 421 DYLINGIYVDI 431

DB 421 DYLINGIYVDI 431

RESULT 15
ABUS4930
ID ABUS4930 standard; protein; 431 AA.

XX AC ABUS4930;

XX DT 15-MAY-2003 (first entry)

XX DE Human secreted/transmembrane protein PRO361.

XX KW Human; PRO; secreted protein; transmembrane protein;

XX KW Cornelia de Lange syndrome; gene therapy; immune disorder;

XX KW inflammatory disease; organ failure; atherosclerosis; cardiac injury;

XX KW infertility; birth defect; premature aging; cardiac injury; AIDS; cancer;

XX KW diabetic complication.

XX OS Homo sapiens.

XX XX US2002173463-A1.

XX PN 21-NOV-2002.

XX PD 31-AUG-2001; 2001US-00944944.

XX PF

XX 03-DEC-1997; 97US-0067411P.
 PR 11-DEC-1997; 97US-0069278P.
 PR 11-DEC-1997; 97US-0069334P.
 PR 11-DEC-1997; 97US-0069335P.
 PR 12-DEC-1997; 97US-0069425P.
 PR 16-DEC-1997; 97US-0069694P.
 PR 16-DEC-1997; 97US-0069696P.
 PR 17-DEC-1997; 97US-0069702P.
 PR 17-DEC-1997; 97US-0069870P.
 PR 18-DEC-1997; 97US-0069873P.
 PR 05-JAN-1998; 98US-0070440P.
 PR 09-FEB-1998; 98US-0074086P.
 PR 09-FEB-1998; 98US-0074092P.
 PR 25-FEB-1998; 98US-0075945P.
 PR 16-SEP-1998; 98WO-US019330.
 PR 01-DEC-1998; 98WO-US025108.
 PR 16-DEC-1998; 98US-0112850P.
 PR 22-DEC-1998; 98US-0112866P.
 PR 02-JUN-1999; 99WO-US012252.
 PR 28-JUL-1999; 99US-0146222P.
 PR 15-SEP-1999; 99WO-US021090.
 PR 30-NOV-1999; 99WO-US028313.
 PR 30-NOV-1999; 99WO-US028409.
 PR 01-DEC-1999; 99WO-US028301.
 PR 16-DEC-1999; 99WO-US030095.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 22-FEB-2000; 2000WO-US004414.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 25-MAY-2001; 2001US-00866028.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
 PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
 PI Hillan KJ, Kljavin LJ, Napier MA, Roy MA, Tumas D, Wood WI;
 XX
 DR WPI; 2003-311003/30.
 DR N-PSDB; ABX96832.
 XX
 PT New transmembrane polypeptides and polynucleotides useful for chromosome
 PT identification, tissue typing, gene therapy, in chromosome and gene
 PT mapping, or as molecular weight markers.
 XX
 PS Claim 12; Fig 32; 172pp; English.
 XX
 CC The invention relates to an isolated nucleic acid encoding a secreted/
 CC transmembrane polypeptide (designated as PRO proteins). 15 PRO
 CC polypeptides and their encoding polynucleotides are disclosed. Also
 CC included are a vector comprising the PRO nucleic acid, a host cell
 CC comprising the vector, a process for producing a PRO polypeptide (by
 CC culturing the host cell under conditions for the expression of the PRO
 CC polypeptide, and recovering the PRO polypeptide from the cell culture, an
 CC isolated polypeptide having at least 80% amino acid sequence identity to
 CC the PRO polypeptides, a chimaeric molecule comprising PRO fused to a
 CC heterologous amino acid sequence and an antibody which specifically binds
 CC to PRO. The PRO nucleotide sequences are useful as hybridisation probes,
 CC in chromosome and gene mapping, in generating sense and antisense RNA or
 CC DNA, in generating transgenic or knock-out animals which can be used in
 CC the development and screening of therapeutically useful reagents, and in
 CC gene therapy. The polypeptides may be used as molecular weight markers
 CC for protein electrophoresis purposes. The PRO polypeptides and nucleic
 CC acids may also be used for chromosome identification, and tissue typing.
 CC PRO241 (identified as Chordin) is a candidate gene for Cornelia de Lange
 CC syndrome. Other PRO proteins are variously implicated in immune
 CC disorders, inflammatory disease, organ failure, atherosclerosis, cardiac
 CC injury, infertility, birth defects, premature aging, cardiac injury,
 CC

CC AIDS, cancer and diabetic complications. The present sequence represents
 CC a PRO protein
 XX
 SQ Sequence 431 AA;
 Query Match 100.0%; Score 2211; DB 6; Length 431;
 Best Local Similarity 100.0%; Pred. No. 4.9e-173;
 Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MFFGEGSLTYTLVIICFLTLRLSASQNLKKSLEDDVIDIQSSLSKIGRGNEPVYTSQ 60
 DB 1 MFFGEGSLTYTLVIICFLTLRLSASQNLKKSLEDDVIDIQSSLSKIGRGNEPVYTSQ 60
 QY 61 EDCINSCCSTKNISGDKACNLMI FTRKTARQPNLCYLFPCPNEEACPLKPAKGLMSYRII 120
 DB 61 EDCINSCCSTKNISGDKACNLMI FTRKTARQPNLCYLFPCPNEEACPLKPAKGLMSYRII 120
 QY 121 TDFPSLTRLNPSQELPOEDSLLHGQFSQAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD 180
 DB 121 TDFPSLTRLNPSQELPOEDSLLHGQFSQAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD 180
 QY 181 HLEKLFKMDASAQLLAYKEKGHSQSOFSSDQEIHLHPENVSALPATVAVASPHTTSA 240
 DB 181 HLEKLFKMDASAQLLAYKEKGHSQSOFSSDQEIHLHPENVSALPATVAVASPHTTSA 240
 QY 241 TPKPATLLPTNASVTPSGTSQPLATTAPPVTVTSQPPPTLLISTVFTRAAATLQAMATT 300
 DB 241 TPKPATLLPTNASVTPSGTSQPLATTAPPVTVTSQPPPTLLISTVFTRAAATLQAMATT 300
 QY 301 AVLTTFQAPTDSKGSLETIPFTEISNLTNTGNVYNPTALSMNSVESSTWNKTASWEGR 360
 DB 301 AVLTTFQAPTDSKGSLETIPFTEISNLTNTGNVYNPTALSMNSVESSTWNKTASWEGR 360
 QY 361 EASPGSSSQSVPENQVGLPPEKMLLIGSLFGVLFLVIGLVLLGRILSESURRRYSRL 420
 DB 361 EASPGSSSQSVPENQVGLPPEKMLLIGSLFGVLFLVIGLVLLGRILSESURRRYSRL 420
 QY 421 DYLINGIYVDI 431
 DB 421 DYLINGIYVDI 431

Search completed: April 26, 2005, 21:49:17
 Job time : 129 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 26, 2005, 21:49:26 ; Search time 55 Seconds
(without alignments)
584.977 Million cell updates/sec

Title: US-10-735-014-83
Perfect score: 2211
Sequence: 1 MFPGGEGSLTYLVIICFLT.....LRRKYSRLDYLINGIYVDI 431

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
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2: /cgn2_6/prodata/1/iaa/5B COMB.pep:*
3: /cgn2_6/prodata/1/iaa/6A COMB.pep:*
4: /cgn2_6/prodata/1/iaa/6B COMB.pep:*
5: /cgn2_6/prodata/1/iaa/PCTUS COMB.pep:*
6: /cgn2_6/prodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2211	100.0	431	4	US-09-866-028-83
2	2211	100.0	431	4	US-09-944-457-83
3	193	8.3	266	4	US-09-489-847-332
4	149.5	6.8	5179	4	US-09-538-092-1258
5	145.5	6.6	629	3	US-09-241-581B-6
6	145.5	6.6	629	4	US-08-265-428-6
7	145.5	6.6	629	5	PCT-US95-07721-6
8	144.5	6.5	1140	4	US-09-538-092-647
9	136	6.2	2870	4	US-09-479-467A-15
10	136	6.2	3178	4	US-09-479-467A-4
11	133	6.0	556	4	US-09-538-092-712
12	132	6.0	788	4	US-09-294-663-3
13	132	6.0	807	4	US-09-294-663-4
14	129	5.8	175	3	US-08-700-651-12
15	129	5.8	175	3	US-08-928-361B-17
16	129	5.8	175	4	US-08-928-361B-17
17	128	5.8	249	3	US-08-588-995A-17
18	128	5.8	249	3	US-08-700-651-15
19	128	5.8	249	3	US-08-928-361B-20
20	128	5.8	249	4	US-08-588-995A-20
21	128	5.8	870	4	US-09-538-092-77
22	127.5	5.8	1601	4	US-09-345-473E-40
23	127	5.7	288	4	US-09-216-393B-341
24	127	5.7	288	4	US-09-216-393B-344
25	127	5.7	357	1	US-08-078-683A-8
26	127	5.7	357	4	US-08-471-970A-8
27	126.5	5.7	357	4	US-09-723-677B-8
28	126.5	5.7	1837	3	US-08-928-361B-5

ALIGNMENTS

RESULT 1

US-09-866-028-83
; Sequence 83, Application US/09866028
; Patent No. 6642360
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/866,028
; CURRENT FILING DATE: 2001-05-25
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 83
; LENGTH: 431
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-866-028-83

Query Match	100.0%;	Score	2211;	DB	4;	Length	431;
Best Local Similarity	100.0%;	Pred. No.	2.9e-202;	Mismatches	0;	Indels	0;
Matches	431;	Conservative	0;	Gaps	0;		
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Db	1	MFPGGEGSLTYLVIICFLTLRLSASQNCLEKSLDWDVVDIQLSSLSKGRGNEPVYTSTQ	60				
QY	61	EDCINSCCSTKNIISGDKACNLMIPTRTKTARPCNYLFFCPNEEACPLKPAKGLMSYRII	120				
Db	61	EDCINSCCSTKNIISGDKACNLMIPTRTKTARPCNYLFFCPNEEACPLKPAKGLMSYRII	120				
QY	121	TDFPSLTNLPSOELPOEDSLHGFQSOAVTPLAHHHTDYSKPTDISWDTLSQKFGSSD	180				
Db	121	TDFPSLTNLPSOELPOEDSLHGFQSOAVTPLAHHHTDYSKPTDISWDTLSQKFGSSD	180				

QY 181 HLEKLFKXDEASQALLAYKKGHSOSSQSFSDQIEAHLLENVSALPATVAVASPHTTSA 240
DB 181 HLEKLFKXDEASQALLAYKKGHSOSSQSFSDQIEAHLLENVSALPATVAVASPHTTSA 240
QY 241 TPKEATLLPTNASVTPSGTSQPOLATTAPPVTTVTSQPPPTTLISTVFTRAAATLQAMATT 300
DB 241 TPKEATLLPTNASVTPSGTSQPOLATTAPPVTTVTSQPPPTTLISTVFTRAAATLQAMATT 300
QY 301 AVLTFTTQAPDSDKSGSLETTFTTBSNLTNTGNNVNTALSMNVESSTWNTKTSWEGR 360
DB 301 AVLTFTTQAPDSDKSGSLETTFTTBSNLTNTGNNVNTALSMNVESSTWNTKTSWEGR 360
QY 361 EASGSSSQSVPNQYGLPEKWLIGSLFGVLFLVIGLVLGRILSLSLRKRYSL 420
DB 361 EASGSSSQSVPNQYGLPEKWLIGSLFGVLFLVIGLVLGRILSLSLRKRYSL 420
QY 421 DYLINGIYVDI 431
DB 421 DYLINGIYVDI 431

RESULT 2
US-09-944-457-83
; Sequence 83, Application US/09944457
; Patent No. 6734288
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Guney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,457
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866, 028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067, 411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069, 334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069, 696
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069, 278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069, 425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069, 696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069, 694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069, 702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069, 870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069, 873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068, 017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070, 440
; PRIOR FILING DATE: January 5, 1998

; PRIOR APPLICATION NUMBER: 60/074, 086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074, 092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075, 945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112, 850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113, 296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146, 222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216, 021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218, 517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254, 311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. 6734288ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. 6734288ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 83
; LENGTH: 431
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-09-944-457-83

Query Match 100.0%; Score 2211; DB 4; Length 431;
Best Local Similarity 100.0%; Pred. No. 2.9e-202;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MFFGEGSLTYTLVVICFLTLRLSASQNCCLKSLEDVVVDIQSSLSKGRNEPVTSTQ 60
DB 1 MFFGEGSLTYTLVVICFLTLRLSASQNCCLKSLEDVVVDIQSSLSKGRNEPVTSTQ 60
QY 61 EDCINSCCSTKNISGDKACNLMIEDTRKTARQPCNYLFFCCNEEACPLKPAKGLMSYRII 120
DB 61 EDCINSCCSTKNISGDKACNLMIEDTRKTARQPCNYLFFCCNEEACPLKPAKGLMSYRII 120
QY 121 TDFPSLTRLNLPSELPOEDSLHGFQSOAVTPLAHHHTDYSKPTDISWRDTLSQKFGSSD 180
DB 121 TDFPSLTRLNLPSELPOEDSLHGFQSOAVTPLAHHHTDYSKPTDISWRDTLSQKFGSSD 180


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Best Local Similarity 22.6%; Pred. No. 0.00097;
Matches 68; Conservative 57; Mismatches 114; Indels 62; Gaps 10;
Qy 164 TDISWRDTLSKFGSSDHLKLPKWDASQAQLLAYKKGHSQSQSQFSDQDIAHLHPNV 223
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Qy 224 SALPATVAVASPHHTTSATPKPATLLPTNASVTPSGTSQPOLATTAPPVTTVTSQPPPTLI 283
Db 187 STTSTSSSTSSSTT--SSTSSSTSSSTSSSTSSSTSSSTSSSTSS--TTSS 242
Qy 284 STVFTRAATLQAMATTAVLT-----TTFOAPTD-----KGSLETI 320
Db 243 TTSSTSSSTT--SSTTSIFSVTSSSSSITLSSSEHTTVDTSRSPSSTLVPVSSSSTL 299
Qy 321 PFTSISNLTMTG-----NVNPTALSMNVESSTMNKTASWEGREASPGSS 367
Db 300 STPKVTSMPTSTSTPIVTSVELVTSVVTKAIVSTSDQHOETIFVTRTSVVERSEVAT 359
Qy 368 SQGSVPENQYGLPPEKMLLIGSL-----LFGVLEFLVIGLVLGRILSLSLRKYSRL 420
Db 360 ATAAASNNRSTSKQLSGGAIAGIVGVGVIFII--LILLFLIWR---RRKSHDQL 414
Qy 421 D 421
Db 415 D 415

RESULT 12
US-09-294-663-3
; Sequence 3, Application US/09294663
; Patent No. 6765127
; GENERAL INFORMATION:
; APPLICANT: Granados, Robert R
; APPLICANT: Wang, Ping
; TITLE OF INVENTION: A No. 6765127el Invertebrate Intestinal Mucin
; TITLE OF INVENTION: cdna and Related Products and Methods
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Brown, Pinnisi & Michaels, P.C.
; STREET: 118 No. 6765127th Tioga Street
; CITY: Ithaca
; STATE: NY
; COUNTRY: USA
; ZIP: 14850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/294,663
; FILING DATE: 19-APR-1999
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/103,429
; FILING DATE: 24-JUN-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Michaels, Christopher A
; REGISTRATION NUMBER: 34,390
; REFERENCE/DOCKET NUMBER: BTI-39-CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (607) 256-2000
; TELEFAX: (607) 256-3628
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 788 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ANTI-SENSE: NO

Query Match 6.0%; Score 132; DB 4; Length 807;
US-09-294-663-4
; ORIGINAL SOURCE:
; ORGANISM: Trichoplusia ni
; TISSUE TYPE: peritrophic membrane
; US-09-294-663-3
Query Match 6.0%; Score 132; DB 4; Length 788;
Best Local Similarity 31.0%; Pred. No. 0.0021;
Matches 48; Conservative 15; Mismatches 78; Indels 14; Gaps 6;
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Db 96 PAETTOAPAT--TQAPTTQA-PTTTTQAPTPTTTOAPTPTTTOAPT--TTQAPT 149
Qy 280 TTLLISTVFTFA-AATLQAMATTAVLT--TTFOAPTDKGSLETIPTFTSISNLTMTGNVNP 338
Db 150 TTQAPTTTTOAPTPTTTOAPTPTTTOAPTPTTTOAPTPTTTOAPTPTTTOAPTPTTTOAPT 208
Qy 339 TALSMNVESSTMNKTASWEGREASPGSSSQGSVVP 373
Db 209 AATTPAATTAAATPAAT-----TFCVPAPTSAP 237

RESULT 13
US-09-294-663-4
; Sequence 4, Application US/09294663
; Patent No. 6765127
; GENERAL INFORMATION:
; APPLICANT: Granados, Robert R
; APPLICANT: Wang, Ping
; TITLE OF INVENTION: A No. 6765127el Invertebrate Intestinal Mucin
; TITLE OF INVENTION: cdna and Related Products and Methods
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Brown, Pinnisi & Michaels, P.C.
; STREET: 118 No. 6765127th Tioga Street
; CITY: Ithaca
; STATE: NY
; COUNTRY: USA
; ZIP: 14850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/294,663
; FILING DATE: 19-APR-1999
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/103,429
; FILING DATE: 24-JUN-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Michaels, Christopher A
; REGISTRATION NUMBER: 34,390
; REFERENCE/DOCKET NUMBER: BTI-39-CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (607) 256-2000
; TELEFAX: (607) 256-3628
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 807 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Trichoplusia ni
; TISSUE TYPE: peritrophic membrane
; US-09-294-663-4
Query Match 6.0%; Score 132; DB 4; Length 807;
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Best Local Similarity 31.0%; Pred. No. 0.0022;
Matches 48; Conservative 15; Mismatches 78; Indels 14; Gaps 6;

QY 220 PENVASLPATVAVASPHHTTSATPKPATLLPTNASVTPSGTSQPLATTAPPVTTVTSQPP 279
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Db 96 PAETQAPAT--TQATTTQA--PTTQTQATTTTQATTTTQATTTQAP--TTTQAPT 149
    :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 280 TTLLISTVFFRA--AATLQAMATTAVLTTFQAPDTSKGSLETIPFTFISNLTNGVNYNP 338
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Db 150 TTQAPTTTTQAPTTTQAPTTTQAPTTTQAPTTTQAPTTTQAPTTTQ--AATTPAATTP 208
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QY 339 TALSMNVSSSTWNTKASWEGREASPGSSSQSGVP 373
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Db 209 AATTPAATTPAATTPAAT-----TGVPAPTSAP 237

RESULT 14
US-08-700-651-12
; Sequence 12, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4(HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; EARLIER FILING DATE: 1997-08-14
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 175
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-12

Query Match 5.8%; Score 129; DB 3; Length 175;
Best Local Similarity 27.3%; Pred. No. 0.00036;
Matches 35; Conservative 15; Mismatches 74; Indels 4; Gaps 1;

QY 226 LPATVAVASPHHTTSATPKPATLLPTNASVTPSGTSQPLATTAPPVTTVTSQPPPTLIST 285
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Db 7 IPYTKCVGVKHTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 62
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QY 286 VFTRAAATLQAMATTAVLTTFQAPDTSKGSLETIPFTFISNLTNGVNYNPATLSMSN 345
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Db 63 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 122
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QY 346 VESSTMNK 353
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Db 123 TTTTITTK 130

RESULT 15
US-08-928-361B-17
; Sequence 17, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
```

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; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Verny, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1(HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 175 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-17

Query Match 5.8%; Score 129; DB 3; Length 175;
Best Local Similarity 27.3%; Pred. No. 0.00036;
Matches 35; Conservative 15; Mismatches 74; Indels 4; Gaps 1;

QY 226 LPATVAVASPHHTTSATPKPATLLPTNASVTPSGTSQPLATTAPPVTTVTSQPPPTLIST 285
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QY 286 VFTRAAATLQAMATTAVLTTFQAPDTSKGSLETIPFTFISNLTNGVNYNPATLSMSN 345
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Db 63 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 122
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QY 346 VESSTMNK 353
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Db 123 TTTTITTK 130
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Job time : 57 secs

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Copyright (c) 1993 - 2005 CompuGen Ltd.
OM protein - protein search, using sw model
Run on: April 26, 2005, 21:53:41 ; Search time 1465 Seconds
(without alignments)
97.906 Million cell updates/sec

Title: US-10-735-014-83
Perfect score: 2211
Sequence: 1 MFPGEGSLTYTLVICFLT.....LRRKRYRLDYLINGIYVDI 431

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1424015 seqs, 332791073 residues

Total number of hits satisfying chosen parameters: 1424015

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/prodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/prodata/1/pubpaa/US06_PUBCOMB.pep.*
- 3: /cgn2_6/prodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/prodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/prodata/1/pubpaa/US07_NEW_PUB.pep.*
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- 7: /cgn2_6/prodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/prodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/prodata/1/pubpaa/US09_PUBCOMB.pep.*
- 10: /cgn2_6/prodata/1/pubpaa/US09_PUBCOMB.pep.*
- 11: /cgn2_6/prodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/prodata/1/pubpaa/US09C_NEW_PUB.pep.*
- 13: /cgn2_6/prodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/prodata/1/pubpaa/US10B_PUBCOMB.pep.*
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- 20: /cgn2_6/prodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2211	100.0	431	9	US-09-866-028-83
2	2211	100.0	431	9	US-09-989-722-515
3	2211	100.0	431	9	US-09-989-723-515
4	2211	100.0	431	9	US-09-989-279-515
5	2211	100.0	431	9	US-09-989-727-515
6	2211	100.0	431	9	US-09-944-449-83
7	2211	100.0	431	9	US-09-989-731-515
8	2211	100.0	431	9	US-09-944-457-83
9	2211	100.0	431	9	US-09-944-862-83
10	2211	100.0	431	9	US-09-989-732-515
11	2211	100.0	431	9	US-09-991-073-515
12	2211	100.0	431	9	US-09-945-587-83
13	2211	100.0	431	9	US-09-990-442-515

14	2211	100.0	431	9	US-09-991-163-515	Sequence 515, App
15	2211	100.0	431	9	US-09-945-015-83	Sequence 83, Appl
16	2211	100.0	431	9	US-09-944-396-83	Sequence 83, Appl
17	2211	100.0	431	9	US-09-993-604-515	Sequence 515, App
18	2211	100.0	431	9	US-09-990-456-515	Sequence 515, App
19	2211	100.0	431	9	US-09-944-432-83	Sequence 83, Appl
20	2211	100.0	431	9	US-09-943-762-83	Sequence 83, Appl
21	2211	100.0	431	9	US-09-944-654-83	Sequence 83, Appl
22	2211	100.0	431	9	US-09-989-721-515	Sequence 515, App
23	2211	100.0	431	9	US-09-943-851A-83	Sequence 83, Appl
24	2211	100.0	431	9	US-09-944-413-83	Sequence 83, Appl
25	2211	100.0	431	9	US-09-992-598-515	Sequence 515, App
26	2211	100.0	431	9	US-09-944-403-83	Sequence 83, Appl
27	2211	100.0	431	9	US-09-944-896-83	Sequence 83, Appl
28	2211	100.0	431	9	US-09-944-944-83	Sequence 83, Appl
29	2211	100.0	431	9	US-09-989-293A-515	Sequence 515, App
30	2211	100.0	431	9	US-09-989-735-515	Sequence 515, App
31	2211	100.0	431	9	US-09-990-444-515	Sequence 515, App
32	2211	100.0	431	9	US-09-944-929-83	Sequence 83, Appl
33	2211	100.0	431	9	US-09-991-181-515	Sequence 515, App
34	2211	100.0	431	9	US-09-989-730-515	Sequence 83, Appl
35	2211	100.0	431	9	US-09-944-907-83	Sequence 83, Appl
36	2211	100.0	431	9	US-09-990-436-515	Sequence 515, App
37	2211	100.0	431	9	US-09-993-687-515	Sequence 515, App
38	2211	100.0	431	10	US-09-989-734-515	Sequence 515, App
39	2211	100.0	431	10	US-09-997-653-515	Sequence 515, App
40	2211	100.0	431	10	US-09-989-724-515	Sequence 515, App
41	2211	100.0	431	10	US-09-989-728-515	Sequence 515, App
42	2211	100.0	431	10	US-09-990-441-515	Sequence 515, App
43	2211	100.0	431	10	US-09-993-667-515	Sequence 515, App
44	2211	100.0	431	10	US-09-997-428-515	Sequence 515, App
45	2211	100.0	431	10	US-09-997-666-515	Sequence 515, App

ALIGNMENTS

RESULT 1
US-09-866-028-83
; Sequence 83, Application US/09866028
; Patent No. US20020058309A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/866,028
; PRIOR FILING DATE: 2001-05-25
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 83
; LENGTH: 431
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-866-028-83
Query Match 100.0%; Score 2211; DB 9; Length 431;
Best Local Similarity 100.0%; Pred. No. 2.1e-172;

Matches	431;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;
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Db	121	TDFPSLNRNLP	SOQLPQEDSLHQQFSAQVTP	LAHHHTDYSKPTDISWRDTLSQKFGSSD	180				
Qy	181	HLEKLFKMDASAQLLAYKEKGHSQ	SSQFSSDQDQIAHLHPENVGALPATVAVASPHYTSA	240					
Db	181	HLEKLFKMDASAQLLAYKEKGHSQ	SSQFSSDQDQIAHLHPENVGALPATVAVASPHYTSA	240					
Qy	241	TPKPTATLLPTNASVTPSGTSQ	PLATTPPVTTVTSOPPTTLISTVFTRAAATLQAMATT	300					
Db	241	TPKPTATLLPTNASVTPSGTSQ	PLATTPPVTTVTSOPPTTLISTVFTRAAATLQAMATT	300					
Qy	301	AVLTTTFOAPDTSKGSLETIPFT	TEISNLTNTGNVYNPTALSMGNVSSSTMNKTASWEGR	360					
Db	301	AVLTTTFOAPDTSKGSLETIPFT	TEISNLTNTGNVYNPTALSMGNVSSSTMNKTASWEGR	360					
Qy	361	EASFGSSSQGV	PNQYGLPFKPKWLLIGSLFGVLFLVIGLVLGRILSRLRKRYSRL	420					
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RESULT 2

US-09-989-722-515
; Sequence 515, Application US/0989722
; Patent No. US20020072067A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730PIC63
; CURRENT APPLICATION NUMBER: US/09/989,722
; CURRENT FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17

; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
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; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
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; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088021
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04
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; PRIOR FILING DATE: 1998-06-04
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; PRIOR APPLICATION NUMBER: 60/088858
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088861
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; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089440
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089512

APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Nepier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730PIC82
CURRENT APPLICATION NUMBER: US/09/989,723
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
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PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
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PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
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PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
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PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088028
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;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09
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Best Local Similarity 100.0%; Pred. No. 2.1e-172; Indels 0; Gaps 0;
Matches 431; Conservative 0; Mismatches 0;
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QY 121 TDFPSLTRNLPSQELPQEDSLHGFQSOAVTFLAHHHTDYSKPTDISWRDTLISQKFGSSD 180
DB 121 TDFPSLTRNLPSQELPQEDSLHGFQSOAVTFLAHHHTDYSKPTDISWRDTLISQKFGSSD 180
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QY 241 TKPATLLPTNASVTPSGTSQPLATTAPPVTVTTSQPPPTLLISTVFTRAAATLQAMATT 300
DB 241 TKPATLLPTNASVTPSGTSQPLATTAPPVTVTTSQPPPTLLISTVFTRAAATLQAMATT 300
QY 301 AVLTFTFQAPDTSKGSLETIPTEISNLTNGVYNPTALSMNVESSTMNKTASWEGR 360
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QY 361 EASPGSSSGSVPEQYGLPFKWKLLIGSLFLGVLFVLVGLVLLGRILLESURRRKYSRL 420
DB 361 EASPGSSSGSVPEQYGLPFKWKLLIGSLFLGVLFVLVGLVLLGRILLESURRRKYSRL 420
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Db 421 DYLINGIYVDI 431
RESULT 4
US-09-989-279-515
; Sequence 515, Application US/09989279
; Patent No. US20020072496A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Iuc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P27301C56
; CURRENT APPLICATION NUMBER: US/09/989,279
; CURRENT FILING DATE: 2001-11-19
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;; PRIOR FILING DATE: 1998-07-09

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Best Local Similarity 100.0%; Pred. No. 2.1e-172;
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; GENERAL INFORMATION:
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; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
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; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC65
; CURRENT APPLICATION NUMBER: US/09/989,727
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;; PRIOR APPLICATION NUMBER: 60/090540
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;; PRIOR APPLICATION NUMBER: 60/090542
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090557
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090676
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090678
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090690
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090694
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090695
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090696
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090862
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02

;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 2211; DB 9; Length 431;
Best Local Similarity 100.0%; Pred. No. 2,1e-172;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MFFGEGSLTYTLVILICFLTLRLSASQNCCLKKSLDWDVIDIQSSLSKGRGNEPVVTSQ 60
Db 1 MFFGEGSLTYTLVILICFLTLRLSASQNCCLKKSLDWDVIDIQSSLSKGRGNEPVVTSQ 60
Qy 61 EDCINSCCSTKNISGDKACNLMIFDTRKTARQNCVLPFCPNEEACPLKPAKGLMSYRII 120
Db 61 EDCINSCCSTKNISGDKACNLMIFDTRKTARQNCVLPFCPNEEACPLKPAKGLMSYRII 120
Qy 121 TDFPSLTRNLPSQELPOEDSLHGOFSQAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD 180
Db 121 TDFPSLTRNLPSQELPOEDSLHGOFSQAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD 180
Qy 181 HLEKLFKMDASQAQLLAYKEKHSQSFSQSDOEIAHLLPENVSALPATVAVASPHTTSA 240
Db 181 HLEKLFKMDASQAQLLAYKEKHSQSFSQSDOEIAHLLPENVSALPATVAVASPHTTSA 240
Qy 241 TPXPATLLPTNASVTPSGTSQPQLATPAPVTVTSQPPTTLISTVTFRAAATLOAMATT 300
Db 241 TPXPATLLPTNASVTPSGTSQPQLATPAPVTVTSQPPTTLISTVTFRAAATLOAMATT 300
Qy 301 AVLTTFQAPTDSKGSLETIPFTEISNLTNTNGVYNPTALSMSNVESSTMNKTASWEGR 360
Db 301 AVLTTFQAPTDSKGSLETIPFTEISNLTNTNGVYNPTALSMSNVESSTMNKTASWEGR 360
Qy 361 EASPGSSSQSVPENQYGLPFKWLIGSLFGVLFVIGLVIGLVIGLVIGLVIGLVIGLVIGLV 420
Db 361 EASPGSSSQSVPENQYGLPFKWLIGSLFGVLFVIGLVIGLVIGLVIGLVIGLVIGLVIGLV 420
Qy 421 DYLINGIYVDI 431
Db 421 DYLINGIYVDI 431

RESULT 6
US-09-944-449-83
; Sequence 83, Application US/09944449
; Patent No. US20020102647A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,449
; FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028

;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090694
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090695
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090696
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090862
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 2211; DB 9; Length 431;

Best Local Similarity 100.0%; Pred. No. 2.1e-172;

Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MFEGGSGSYTVLVIICFTLRLSASQNCCLKSLEDVWIDIOSLSKSGIRGNEPVVTSQ 60
DB 1 MFEGGSGSYTVLVIICFTLRLSASQNCCLKSLEDVWIDIOSLSKSGIRGNEPVVTSQ 60
QY 61 EDCINSCCSTKNISGDKACNLMI FDKRTARQPCNYLFFCPNEEACPLKPAKGLMSYRII 120
DB 61 EDCINSCCSTKNISGDKACNLMI FDKRTARQPCNYLFFCPNEEACPLKPAKGLMSYRII 120
QY 121 TDFPSLTRNLPSQELPQEDSLHGGQSQAVTPPLAHHTDYSKPTDISWRDITLSQKFGSSD 180
DB 121 TDFPSLTRNLPSQELPQEDSLHGGQSQAVTPPLAHHTDYSKPTDISWRDITLSQKFGSSD 180
QY 181 HLEKLPKMDASAQLLAYKEKGSSQSFSSQDOETAHLLPENVSALPATVAVASPHTTSA 240
DB 181 HLEKLPKMDASAQLLAYKEKGSSQSFSSQDOETAHLLPENVSALPATVAVASPHTTSA 240
QY 241 TKPATLLPTNASVTPSGTSQQLATTAPPVTVTSQPPTTLISTVFTRAAATLQAMATT 300
DB 241 TKPATLLPTNASVTPSGTSQQLATTAPPVTVTSQPPTTLISTVFTRAAATLQAMATT 300
QY 301 AVLTTFQAPTDSKGSLETIPPTETISNLTNGVNVNPTALSMNVESSTMNKTASWEGR 360
DB 301 AVLTTFQAPTDSKGSLETIPPTETISNLTNGVNVNPTALSMNVESSTMNKTASWEGR 360
QY 361 EASPGSSSGSPENQYGLPFPEKWLILGSLFGVLFLVGLVLLGRILLESIRRRKYSRL 420
DB 361 EASPGSSSGSPENQYGLPFPEKWLILGSLFGVLFLVGLVLLGRILLESIRRRKYSRL 420
QY 421 DYLINGIYVDI 431
DB 421 DYLINGIYVDI 431

RESULT 8

US-09-944-457-83

; Sequence 83, Application US/09944457

; Patent No. US20020110859A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin

;; APPLICANT: Botstein, David
;; APPLICANT: Eaton, Dan
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Gerritsen, Mary
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul
;; APPLICANT: Grimaldi, Christopher
;; APPLICANT: Gurney, Austin
;; APPLICANT: Hillan, Kenneth
;; APPLICANT: Kljavin, Ivar
;; APPLICANT: Napier, Mary
;; APPLICANT: Roy, Margaret
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Wood, William
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;; FILE REFERENCE: P2548PICI
;; CURRENT APPLICATION NUMBER: US/09/944,457
;; PRIOR FILING DATE: 2001-09-26
;; PRIOR APPLICATION NUMBER: 09/866,028
;; PRIOR FILING DATE: 2001-05-25
;; PRIOR APPLICATION NUMBER: 60/067,411
;; PRIOR FILING DATE: December 3, 1997
;; PRIOR APPLICATION NUMBER: 60/069,334
;; PRIOR FILING DATE: December 11, 1997
;; PRIOR APPLICATION NUMBER: 60/069,335
;; PRIOR FILING DATE: December 11, 1997
;; PRIOR APPLICATION NUMBER: 60/069,278
;; PRIOR FILING DATE: December 11, 1997
;; PRIOR APPLICATION NUMBER: 60/069,425
;; PRIOR FILING DATE: December 12, 1997
;; PRIOR APPLICATION NUMBER: 60/069,696
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,694
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,702
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,870
;; PRIOR FILING DATE: December 17, 1997
;; PRIOR APPLICATION NUMBER: 60/069,873
;; PRIOR FILING DATE: December 17, 1997
;; PRIOR APPLICATION NUMBER: 60/068,017
;; PRIOR FILING DATE: December 18, 1997
;; PRIOR APPLICATION NUMBER: 60/070,440
;; PRIOR FILING DATE: January 5, 1998
;; PRIOR APPLICATION NUMBER: 60/074,086
;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/074,092
;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/075,945
;; PRIOR FILING DATE: February 25, 1998
;; PRIOR APPLICATION NUMBER: 60/112,850
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 60/113,296
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 60/146,222
;; PRIOR FILING DATE: July 28, 1999
;; PRIOR APPLICATION NUMBER: PCT/US98/19330
;; PRIOR FILING DATE: September 16, 1998
;; PRIOR APPLICATION NUMBER: PCT/US98/25108
;; PRIOR FILING DATE: December 1, 1998
;; PRIOR APPLICATION NUMBER: 09/216,021
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 09/218,517
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 09/254,311
;; PRIOR FILING DATE: March 3, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/12252
;; PRIOR FILING DATE: June 22, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: September 15, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28409

;; PRIOR FILING DATE: No. US20020110859A1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: No. US20020110859A1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28301
;; PRIOR FILING DATE: December 1, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: December 16, 1999
;; PRIOR APPLICATION NUMBER: PCT/US00/03565
;; PRIOR FILING DATE: February 11, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: February 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/05841
;; PRIOR FILING DATE: March 2, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/08439
;; PRIOR FILING DATE: March 30, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/14042
;; PRIOR FILING DATE: May 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/20710
;; PRIOR FILING DATE: July 28, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/32678
;; PRIOR FILING DATE: December 1, 2000
;; PRIOR APPLICATION NUMBER: PCT/US01/06520
;; PRIOR FILING DATE: February 28, 2001
;; NUMBER OF SEQ ID NOS: 120
;; SEQ ID NO 83
;; LENGTH: 431
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-944-457-83

Query Match 100.0% Score 2211; DB 9; Length 431;
Best Local Similarity 100.0%; Pred. No. 2.1e-172; Indels 0; Gaps 0;
Matches 431; Conservative 0; Mismatches 0

Qy	1	MFFGEGSLTYLVIIICFLTLRLSASQNCLEKSLDVEDVVIDIQSSLSKGRGNEPVTSTQ	60
Db	1	MFFGEGSLTYLVIIICFLTLRLSASQNCLEKSLDVEDVVIDIQSSLSKGRGNEPVTSTQ	60
Qy	61	EDCINSCCSTKNISGDKACNLMIFDTRKTARQPCNYLFFCNEEACPLKPAKGLMSYRII	120
Db	61	EDCINSCCSTKNISGDKACNLMIFDTRKTARQPCNYLFFCNEEACPLKPAKGLMSYRII	120
Qy	121	TDFPSLTNLPSQELPQSDSLHGFQSOAVTPLAHHHTDYSKPTDISWRDITLSQKFGSSD	180
Db	121	TDFPSLTNLPSQELPQSDSLHGFQSOAVTPLAHHHTDYSKPTDISWRDITLSQKFGSSD	180
Qy	181	HLEKLFKNDASAQLLAYKEGHSQSQFSSDQETIAHLLENVSALPATVAVASPHTTSA	240
Db	181	HLEKLFKNDASAQLLAYKEGHSQSQFSSDQETIAHLLENVSALPATVAVASPHTTSA	240
Qy	241	TPKPAATLLPTNASVTPSGTSQFOLATTPPVTTVTSQPTTLISTVFTTAAATLQAMATT	300
Db	241	TPKPAATLLPTNASVTPSGTSQFOLATTPPVTTVTSQPTTLISTVFTTAAATLQAMATT	300
Qy	301	AVLTTFQAPDTSKGSLETIPETISNLTNGVNYNPTALSMNSVESSTWNTASWEGR	360
Db	301	AVLTTFQAPDTSKGSLETIPETISNLTNGVNYNPTALSMNSVESSTWNTASWEGR	360
Qy	361	EASPGSSSQGVPENQYGLPEKWLIIIGSLFGVLFLVIGLVLLGRILLESRLRRKYSRL	420
Db	361	EASPGSSSQGVPENQYGLPEKWLIIIGSLFGVLFLVIGLVLLGRILLESRLRRKYSRL	420
Qy	421	DYLINGIYVDI 431	
Db	421	DYLINGIYVDI 431	

RESULT 9
US-09-944-862-83
; Sequence 83, Application US/09944862
; Patent No. US20020115145A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin

;; APPLICANT: Botstein, David
;; APPLICANT: Eaton, Dan
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Gerlitsen, Mary
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul
;; APPLICANT: Grimaldi, Christopher
;; APPLICANT: Gurney, Austin
;; APPLICANT: Hillan, Kenneth
;; APPLICANT: Kijavin, Ivar
;; APPLICANT: Napier, Mary
;; APPLICANT: Roy, Margaret
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Wood, William
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;; FILE REFERENCE: P2548P1C1
;; CURRENT APPLICATION NUMBER: US/09/944,862
;; CURRENT FILING DATE: 2001-09-26
;; PRIOR APPLICATION NUMBER: 09/866,028
;; PRIOR FILING DATE: 2001-05-25
;; PRIOR APPLICATION NUMBER: 60/067,411
;; PRIOR FILING DATE: December 3, 1997
;; PRIOR APPLICATION NUMBER: 60/069,334
;; PRIOR FILING DATE: December 11, 1997
;; PRIOR APPLICATION NUMBER: 60/069,335
;; PRIOR FILING DATE: December 11, 1997
;; PRIOR APPLICATION NUMBER: 60/069,278
;; PRIOR FILING DATE: December 11, 1997
;; PRIOR APPLICATION NUMBER: 60/069,425
;; PRIOR FILING DATE: December 12, 1997
;; PRIOR APPLICATION NUMBER: 60/069,596
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,694
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,702
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,870
;; PRIOR FILING DATE: December 17, 1997
;; PRIOR APPLICATION NUMBER: 60/069,873
;; PRIOR FILING DATE: December 17, 1997
;; PRIOR APPLICATION NUMBER: 60/068,017
;; PRIOR FILING DATE: December 18, 1997
;; PRIOR APPLICATION NUMBER: 60/070,440
;; PRIOR FILING DATE: January 5, 1998
;; PRIOR APPLICATION NUMBER: 60/074,086
;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/074,092
;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/075,945
;; PRIOR FILING DATE: February 25, 1998
;; PRIOR APPLICATION NUMBER: 60/112,850
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 60/113,296
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 60/146,222
;; PRIOR FILING DATE: July 28, 1999
;; PRIOR APPLICATION NUMBER: PCT/US98/19330
;; PRIOR FILING DATE: September 16, 1998
;; PRIOR APPLICATION NUMBER: PCT/US98/25108
;; PRIOR FILING DATE: December 1, 1998
;; PRIOR APPLICATION NUMBER: 09/216,021
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 09/218,517
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 09/254,311
;; PRIOR FILING DATE: March 3, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/12252
;; PRIOR FILING DATE: June 22, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: September 15, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28409

;; PRIOR FILING DATE: No. US200201151451ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: No. US200201151451ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28301
;; PRIOR FILING DATE: December 1, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: December 16, 1999
;; PRIOR APPLICATION NUMBER: PCT/US00/03565
;; PRIOR FILING DATE: February 11, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: February 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/05841
;; PRIOR FILING DATE: March 2, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/08439
;; PRIOR FILING DATE: March 30, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/14042
;; PRIOR FILING DATE: May 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/20710
;; PRIOR FILING DATE: July 28, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/32678
;; PRIOR FILING DATE: December 1, 2000
;; PRIOR APPLICATION NUMBER: PCT/US01/06520
;; PRIOR FILING DATE: February 28, 2001
;; NUMBER OF SEQ ID NOS: 120
;; SEQ ID NO 83
;; LENGTH: 431
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-944-862-83

Query Match 100.0%; Score 2211; DB 9; Length 431;
Best Local Similarity 100.0%; Pred. No. 2.1e-172;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MFEGGSLTYLTVIICFLTLRLSASQNCIKKSLDWDVIOSSLSKGRGNEPVYTSQ 60
Db |||||
QY 1 MFEGGSLTYLTVIICFLTLRLSASQNCIKKSLDWDVIOSSLSKGRGNEPVYTSQ 60
Db |||||

QY 61 EDCINSCCTKNIISGDACNLMI FDKTKTARQPCVLPFCPNEEACPLKPAKGLMSYRII 120
Db |||||

QY 121 TDFPSLTRNLPSQELPQEDSLHGFQSAVTPPLAHHTDYSKPTDISWRDITLSQKFGSSD 180
Db |||||

QY 181 HLEKLFKMDASAQLLAYKEKHSQSSQFSSDQETIAHLHPENVVSALPATVAVASPHTTSA 240
Db |||||

QY 241 TPKPATLLPTNASVTPSGTSQPOLATTAPPVTVTSQPTTLITSTVFTRAAATLOAMATT 300
Db |||||

QY 301 AVLTTFQAPTDSKGSLETIPTEISNLTNTGNVNPPTALSMSNVESSTMNKTASWEGR 360
Db |||||

QY 361 EASPGSSQGVSPENQYGLPFKWLIIIGSLFGVLFLVIGLVLGRILSESILRRKRYRL 420
Db |||||

QY 421 DYLINGIYVDI 431
Db |||||

RESULT 10
US-09-989-732-515
; Sequence 515, Application US/09989732
; Patent No. US20020123463A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.

;; APPLICANT: Baker, Kevin P.
;; APPLICANT: Botstein, David
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Eaton, Dan L.
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gerber, Hanspeter
;; APPLICANT: Gerritsen, Mary E.
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Grimaldi, J. Christopher
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Kljavin, Ivar J.
;; APPLICANT: Napier, Mary A.
;; APPLICANT: Pan, James
;; APPLICANT: Paoni, Nicholas F.
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Watanabe, Colin K.
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William I.
;; APPLICANT: Zhang, Zemin
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: P2730PIC57
;; CURRENT APPLICATION NUMBER: US/09/989,732
;; CURRENT FILING DATE: 2001-11-19
;; PRIOR APPLICATION NUMBER: 60/049787
;; PRIOR FILING DATE: 1997-06-16
;; PRIOR APPLICATION NUMBER: 60/062250
;; PRIOR FILING DATE: 1997-10-17
;; PRIOR APPLICATION NUMBER: 60/065186
;; PRIOR FILING DATE: 1997-11-12
;; PRIOR APPLICATION NUMBER: 60/065311
;; PRIOR FILING DATE: 1997-11-13
;; PRIOR APPLICATION NUMBER: 60/066770
;; PRIOR FILING DATE: 1997-11-24
;; PRIOR APPLICATION NUMBER: 60/075945
;; PRIOR FILING DATE: 1998-02-25
;; PRIOR APPLICATION NUMBER: 60/078910
;; PRIOR FILING DATE: 1998-03-20
;; PRIOR APPLICATION NUMBER: 60/083322
;; PRIOR FILING DATE: 1998-04-28
;; PRIOR APPLICATION NUMBER: 60/084600
;; PRIOR FILING DATE: 1998-05-07
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;; PRIOR FILING DATE: 1998-05-28
;; PRIOR APPLICATION NUMBER: 60/087607
;; PRIOR FILING DATE: 1998-06-02
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;; PRIOR APPLICATION NUMBER: 60/088028
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;; PRIOR APPLICATION NUMBER: 60/088029
;; PRIOR FILING DATE: 1998-06-04
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;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088033
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088326
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088167

; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088202
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088212
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088217
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088655
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: 60/088734
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088742
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088810
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088858
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089440
; PRIOR FILING DATE: 1998-06-16
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; PRIOR FILING DATE: 1998-06-16
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; PRIOR APPLICATION NUMBER: 60/090863
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; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091478
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
; PRIOR FILING DATE: 1998-07-01
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; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 2211; DB 9; Length 431;

Best Local Similarity 100.0%; Pred. No. 2.1e-172; Indels 0; Gaps 0;
Matches 431; Conservative 0; Mismatches 0;

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Db 61 EDCINSCCSTKNISGDKACNLMIPDTRKTARQPNCYLFFCFNEEACPLKPAKGLMSYRII 120
Qy 121 TDFPSLRLNLPSELPOEDSLHGFQSOAVTPLAHHTDYSKPDTISWRDTLSQKFGSSD 180
Db 121 TDFPSLRLNLPSELPOEDSLHGFQSOAVTPLAHHTDYSKPDTISWRDTLSQKFGSSD 180
Qy 181 HLEKLFKMDASQAQLLAYKEGHSQSSQFSQSDQBIAHLLPENVSALPATVAVASPHHTSA 240
Db 181 HLEKLFKMDASQAQLLAYKEGHSQSSQFSQSDQBIAHLLPENVSALPATVAVASPHHTSA 240
Qy 241 TPKPATLLPTNVA SVTSGTSGPOLATTAPPVVTTSQBPPTTLLISTVTRAAATLOAWATT 300
Db 241 TPKPATLLPTNVA SVTSGTSGPOLATTAPPVVTTSQBPPTTLLISTVTRAAATLOAWATT 300

Db 241 TPKPATLLPTNASVTPSGTSQPOLATTAPVTTVTSQPTTLISTVFTRAAATLQAMATT 300
Qy 301 AVLTTTFQAPTDSKGSLETIPFTEISNLTLNTGNVYNPTALSMNSVSESTMNKTSWEGR 360
Db 301 AVLTTTFQAPTDSKGSLETIPFTEISNLTLNTGNVYNPTALSMNSVSESTMNKTSWEGR 360
Qy 361 EASPGSSSGSPENQYGLPFKWLIGSLFGVLFLVGLVLLGILSESLLRRKYSRL 420
Db 361 EASPGSSSGSPENQYGLPFKWLIGSLFGVLFLVGLVLLGILSESLLRRKYSRL 420
Qy 421 DYLINGIYVDI 431
Db 421 DYLINGIYVDI 431

RESULT 11
US-09-991-073-515
; Sequence 515, Application US/09991073
; Patent No. US20020127576A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC15
; CURRENT APPLICATION NUMBER: US/09/991,073
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
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;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 2211; DB 9; Length 431;

Best Local Similarity 100.0%; Pred. No. 2.1e-172;
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Db 61 EDCINSCCSTKNISGDKACNLMIFDTRKTARQPCNYLFFCPNEEACPLKPAKGLMSYRII 120
Qy 121 TDFPSLTRNLPSQELPOEDSLHGOFSQAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD 180
Db 121 TDFPSLTRNLPSQELPOEDSLHGOFSQAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD 180
Qy 181 HLEKLFKXDEASQALLAYKEKHSQSOSFSDOEIAHLLENVSALPATVAVASPHHTSA 240
Db 181 HLEKLFKXDEASQALLAYKEKHSQSOSFSDOEIAHLLENVSALPATVAVASPHHTSA 240
Qy 241 TPKPATLLPTNASVTPSGTSQPQLATTAPPVTTVTSPPTLLISTVFTRAAATLQAMATT 300
Db 241 TPKPATLLPTNASVTPSGTSQPQLATTAPPVTTVTSPPTLLISTVFTRAAATLQAMATT 300
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Db 301 AVLTTFQAPTDSKGSLETIPFTEISNLTNTGNVYNPTALSMSNVESSTWNTASWEGR 360
Qy 361 EASPGSSSQSVPENQYGLPFKFWLLIGSLFLGVLFIAGVLIGLGRILSSLSREKYSRL 420
Db 361 EASPGSSSQSVPENQYGLPFKFWLLIGSLFLGVLFIAGVLIGLGRILSSLSREKYSRL 420
Qy 421 DYLINGIYVDI 431
Db 421 DYLINGIYVDI 431
RESULT 12
US-09-945-587-83
; Sequence 83, Application US/09945587
; Patent No. US20020127643A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/945,587
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425

;; PRIOR FILING DATE: December 12, 1997
;; PRIOR APPLICATION NUMBER: 60/069,696
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,694
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,702
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,870
;; PRIOR FILING DATE: December 17, 1997
;; PRIOR APPLICATION NUMBER: 60/069,873
;; PRIOR FILING DATE: December 17, 1997
;; PRIOR APPLICATION NUMBER: 60/068,017
;; PRIOR FILING DATE: December 18, 1997
;; PRIOR APPLICATION NUMBER: 60/070,440
;; PRIOR FILING DATE: January 5, 1998
;; PRIOR APPLICATION NUMBER: 60/074,086
;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/074,092
;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/075,945
;; PRIOR FILING DATE: February 25, 1998
;; PRIOR APPLICATION NUMBER: 60/112,850
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 60/113,296
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 60/146,222
;; PRIOR FILING DATE: July 28, 1999
;; PRIOR APPLICATION NUMBER: PCT/US98/19330
;; PRIOR FILING DATE: September 16, 1998
;; PRIOR APPLICATION NUMBER: PCT/US98/25108
;; PRIOR FILING DATE: December 1, 1998
;; PRIOR APPLICATION NUMBER: 09/216,021
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 09/218,517
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 09/254,311
;; PRIOR FILING DATE: March 3, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/12252
;; PRIOR FILING DATE: June 22, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: September 15, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28409
;; PRIOR FILING DATE: No. US20020127643A1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: No. US20020127643A1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28301
;; PRIOR FILING DATE: December 1, 1999
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;; PRIOR FILING DATE: December 16, 1999
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;; PRIOR FILING DATE: February 11, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: February 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/05841
;; PRIOR FILING DATE: March 2, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/08439
;; PRIOR FILING DATE: March 30, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/14042
;; PRIOR FILING DATE: May 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/20710
;; PRIOR FILING DATE: July 28, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/32678
;; PRIOR FILING DATE: December 1, 2000
;; PRIOR APPLICATION NUMBER: PCT/US01/06520
;; PRIOR FILING DATE: February 28, 2001
;; NUMBER OF SEQ ID NOS: 120
;; SEQ ID NO 83
;; LENGTH: 431
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-945-587-83

Query Match

100.0%; Score 2211; DB 9; Length 431;

Best Local Similarity 100.0%; Pred. No. 2.le-172;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MFEGGEGSLTYTLVLIICFLTLRLSASQNLCKKSLSDVWIDIOSSLSKGIKRGNEPVVTSTQ 60
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Db 1 MFEGGEGSLTYTLVLIICFLTLRLSASQNLCKKSLSDVWIDIOSSLSKGIKRGNEPVVTSTQ 60
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Db 61 EDCINSCCSTKNISGDKACNLMIFDTRKTARQPCNYLFFCPNEEACPLKPAKGLMSYRII 120
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QY 121 TDFPSLTRNLPSQELPOEDSLHGFQSOAVTFLAHHTDYSKPTDISWDTLSQKFGSSD 180
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Db 121 TDFPSLTRNLPSQELPOEDSLHGFQSOAVTFLAHHTDYSKPTDISWDTLSQKFGSSD 180
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QY 181 HLEKLFKMDASAQLLAYKEKGHSOSSQSSQSSQSSQSSQSSQSSQSSQSSQSSQSSQSSQSS 240
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Db 181 HLEKLFKMDASAQLLAYKEKGHSOSSQSSQSSQSSQSSQSSQSSQSSQSSQSSQSSQSSQSS 240
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QY 241 TPKPATLLPTNASVTPSGTSQPOLATTAPPVTTVTSQPPTTLISTVFTTRAAATLOAMATT 300
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QY 301 AVLTTFQAPTDSKGSLETPETETISNLTNTGNVYNPTALSMNSVESSTMNKTASWEGR 360
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Db 301 AVLTTFQAPTDSKGSLETPETETISNLTNTGNVYNPTALSMNSVESSTMNKTASWEGR 360
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QY 361 EASPGSSQSGVPEQYGLPPEKWLIGSLGLFLVIGLVLLGLRILSESLLRRKYSRL 420
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Db 361 EASPGSSQSGVPEQYGLPPEKWLIGSLGLFLVIGLVLLGLRILSESLLRRKYSRL 420
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QY 421 DYLINGIYVDI 431
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Db 421 DYLINGIYVDI 431
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RESULT 13

US-09-990-442-515
; Sequence 515, Application US/09990442
; Patent No. US20020132252A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kijavini, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730P1C8
; CURRENT APPLICATION NUMBER: US/09/990,442
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250

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;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 2211; DB 9; Length 431;
Best Local Similarity 100.0%; Pred. No. 2.1e-172;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MFPGGSLTYLVITICFLTLRLSASQNCLEKSLSDVWIDIQSSLSKGIKRGNEPVYTSTQ 60
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Db 61 EDCINSCCTKNIISGDKACNLMI FDKTKTARQPCVLYFCPNEEACPLKPAKGLMSYRII 120
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Db 121 TDPFSLTRNLPSQELPQEDSLHGFQSQAVTPLAHHTDYSKPTDISMRDTLISQKFGSSD 180
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Db 181 HLEKLFKMDASAQLLAYKEKHSQSSQFSSQDOEIAHLIPENVSALPATVAVASPHTTSA 240
Qy 241 TPKPATLLPTNASVTPSGTSQPOLATTPPVTTVTSQPTTLISTVFTRAAATLQAMATT 300
Db 241 TPKPATLLPTNASVTPSGTSQPOLATTPPVTTVTSQPTTLISTVFTRAAATLQAMATT 300
Qy 301 AVLTTTFQAPTDSKGSLETIPTEISNLTNTGNVYNPTALSNSVSESSTMNKTASWEGR 360
Db 301 AVLTTTFQAPTDSKGSLETIPTEISNLTNTGNVYNPTALSNSVSESSTMNKTASWEGR 360
Qy 361 EASPGSSQGSVPENQYGLPFKWLIGSLLFGVLFLVIGLVLGRILSESLLRRKYSRL 420
Db 361 EASPGSSQGSVPENQYGLPFKWLIGSLLFGVLFLVIGLVLGRILSESLLRRKYSRL 420
Qy 421 DYLINGIYVDI 431
Db 421 DYLINGIYVDI 431

RESULT 14
US-09-991-163-515
; Sequence 515, Application US/09991163
; Patent No. US20020132253A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.

;; APPLICANT: Grimaldi, J. Christopher
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Kljavin, Ivar J.
;; APPLICANT: Napier, Mary A.
;; APPLICANT: Pan, James
;; APPLICANT: Paoni, Nicholas F.
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Watanabe, Colin K.
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William I.
;; APPLICANT: Zhang, Zemin
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: P2730P1C17
;; CURRENT APPLICATION NUMBER: US/09/991,163
;; CURRENT FILING DATE: 2001-11-14
;; PRIOR APPLICATION NUMBER: 60/049787
;; PRIOR FILING DATE: 1997-06-16
;; PRIOR APPLICATION NUMBER: 60/062250
;; PRIOR FILING DATE: 1997-10-17
;; PRIOR APPLICATION NUMBER: 60/065186
;; PRIOR FILING DATE: 1997-11-12
;; PRIOR APPLICATION NUMBER: 60/065311
;; PRIOR FILING DATE: 1997-11-13
;; PRIOR APPLICATION NUMBER: 60/066770
;; PRIOR FILING DATE: 1997-11-24
;; PRIOR APPLICATION NUMBER: 60/075945
;; PRIOR FILING DATE: 1998-02-25
;; PRIOR APPLICATION NUMBER: 60/078910
;; PRIOR FILING DATE: 1998-03-20
;; PRIOR APPLICATION NUMBER: 60/083322
;; PRIOR FILING DATE: 1998-04-28
;; PRIOR APPLICATION NUMBER: 60/084600
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/087106
;; PRIOR FILING DATE: 1998-05-28
;; PRIOR APPLICATION NUMBER: 60/087607
;; PRIOR FILING DATE: 1998-06-02
;; PRIOR APPLICATION NUMBER: 60/087609
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;; PRIOR APPLICATION NUMBER: 60/087759
;; PRIOR FILING DATE: 1998-06-02
;; PRIOR APPLICATION NUMBER: 60/087827
;; PRIOR FILING DATE: 1998-06-03
;; PRIOR APPLICATION NUMBER: 60/088021
;; PRIOR FILING DATE: 1998-06-04
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;; PRIOR FILING DATE: 1998-06-04
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;; PRIOR FILING DATE: 1998-06-05
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;; PRIOR FILING DATE: 1998-06-05
;; PRIOR APPLICATION NUMBER: 60/088217
;; PRIOR FILING DATE: 1998-06-05
;; PRIOR APPLICATION NUMBER: 60/088655
;; PRIOR FILING DATE: 1998-06-09
;; PRIOR APPLICATION NUMBER: 60/088734

QY 421 DYLINGIYVDI 431
 Db 421 DYLINGIYVDI 431

RESULT 15

US-09-945-015-83
 ; Sequence 83, Application US/09945015
 ; Patent No. US20020132768A1
 ; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin
 ; APPLICANT: Botstein, David
 ; APPLICANT: Eaton, Dan
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Ferraro, Ellen
 ; APPLICANT: Gerritsen, Mary
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul
 ; APPLICANT: Grimaldi, Christopher
 ; APPLICANT: Gurney, Austin
 ; APPLICANT: Hillan, Kenneth
 ; APPLICANT: Kljavin, Ivar
 ; APPLICANT: Napier, Mary
 ; APPLICANT: Roy, Margaret
 ; APPLICANT: Tomas, Daniel
 ; APPLICANT: Wood, William
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 ; TITLE OF INVENTION: ACIDS ENCODING THE SAME

; FILE REFERENCE: P2548P1C1
 ; CURRENT APPLICATION NUMBER: US/09/945,015

; CURRENT FILING DATE: 2001-09-26

; PRIOR APPLICATION NUMBER: 09/866,028

; PRIOR FILING DATE: 2001-05-25

; PRIOR APPLICATION NUMBER: 60/067,411

; PRIOR FILING DATE: December 3, 1997

; PRIOR APPLICATION NUMBER: 60/069,334

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,335

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,278

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,425

; PRIOR FILING DATE: December 12, 1997

; PRIOR APPLICATION NUMBER: 60/069,696

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,694

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,702

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,870

; PRIOR FILING DATE: December 17, 1997

; PRIOR APPLICATION NUMBER: 60/069,873

; PRIOR FILING DATE: December 17, 1997

; PRIOR APPLICATION NUMBER: 60/068,017

; PRIOR FILING DATE: December 18, 1997

; PRIOR APPLICATION NUMBER: 60/070,440

; PRIOR FILING DATE: January 5, 1998

; PRIOR APPLICATION NUMBER: 60/074,086

; PRIOR FILING DATE: February 9, 1998

; PRIOR APPLICATION NUMBER: 60/074,092

; PRIOR FILING DATE: February 9, 1998

; PRIOR APPLICATION NUMBER: 60/075,945

; PRIOR FILING DATE: February 25, 1998

; PRIOR APPLICATION NUMBER: 60/112,850

; PRIOR FILING DATE: December 16, 1998

; PRIOR APPLICATION NUMBER: 60/113,296

; PRIOR FILING DATE: December 22, 1998

; PRIOR APPLICATION NUMBER: 60/146,222

; PRIOR FILING DATE: July 28, 1999

; PRIOR APPLICATION NUMBER: PCT/US98/19330

; PRIOR FILING DATE: September 16, 1998

; PRIOR APPLICATION NUMBER: PCT/US98/25108

; PRIOR FILING DATE: December 1, 1998

; PRIOR APPLICATION NUMBER: 09/216,021
 ; PRIOR FILING DATE: December 16, 1998
 ; PRIOR APPLICATION NUMBER: 09/218,517
 ; PRIOR FILING DATE: December 22, 1998
 ; PRIOR APPLICATION NUMBER: 09/254,311
 ; PRIOR FILING DATE: March 3, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/12252
 ; PRIOR FILING DATE: June 22, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: September 15, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/28409
 ; PRIOR FILING DATE: No. US20020132768A1ember 30, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: No. US20020132768A1ember 30, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/28301
 ; PRIOR FILING DATE: December 1, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095
 ; PRIOR FILING DATE: December 16, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US00/03565
 ; PRIOR FILING DATE: February 11, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: February 22, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/05841
 ; PRIOR FILING DATE: March 2, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/08439
 ; PRIOR FILING DATE: March 30, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/14042
 ; PRIOR FILING DATE: May 22, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/20710
 ; PRIOR FILING DATE: July 28, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/32678
 ; PRIOR FILING DATE: December 1, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US01/06520
 ; PRIOR FILING DATE: February 28, 2001
 ; NUMBER OF SEQ ID NOS: 120
 ; SEQ ID NO 83
 ; LENGTH: 431
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 ; US-09-945-015-83

Query Match 100.0%; Score 2211; DB 9; Length 431;
 Best Local Similarity 100.0%; Pred. No. 2.1e-172;
 Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MFFGEGSLTYTLVLIICFLTLRLSASQNCCLKSLEDVVIDIQSSLSKGRGNEPVYTSTQ 60
 Db 1 MFFGEGSLTYTLVLIICFLTLRLSASQNCCLKSLEDVVIDIQSSLSKGRGNEPVYTSTQ 60
 QY 61 EDCINSCCSTKNIISGDKACNLMI FTRKTAROPNCYLPFCPNEEACPLKPAKGLMSYRII 120
 Db 61 EDCINSCCSTKNIISGDKACNLMI FTRKTAROPNCYLPFCPNEEACPLKPAKGLMSYRII 120
 QY 121 TDFPSLTRNLPSQELPQEDSLHGGFQAVTPELAHHHTDYSKPTDISWRDITLSQKFGSSD 180
 Db 121 TDFPSLTRNLPSQELPQEDSLHGGFQAVTPELAHHHTDYSKPTDISWRDITLSQKFGSSD 180
 QY 181 HLEKLFKNDASQAQLLAYKEKGHSQSSQFSSDQETIAHLLPENVSALPATVAVASPHTTSA 240
 Db 181 HLEKLFKNDASQAQLLAYKEKGHSQSSQFSSDQETIAHLLPENVSALPATVAVASPHTTSA 240
 QY 241 TPKPATLLPTNASVTPSGTSQPOLATTAPPVTTVTSQPTTLISTVFTRAAATLOAWATT 300
 Db 241 TPKPATLLPTNASVTPSGTSQPOLATTAPPVTTVTSQPTTLISTVFTRAAATLOAWATT 300
 QY 301 AVLTTFQAPTDSKGSLETIPFTEISNLTNGVNYNPALTSMNSVESSTMNKTASWEGR 360
 Db 301 AVLTTFQAPTDSKGSLETIPFTEISNLTNGVNYNPALTSMNSVESSTMNKTASWEGR 360
 QY 361 EASPGSSSQGSPENQYGLPFKEKMLLIGSLFGVLFLVIGLVLLGRILLESRRKRYSL 420
 Db 361 EASPGSSSQGSPENQYGLPFKEKMLLIGSLFGVLFLVIGLVLLGRILLESRRKRYSL 420

Qy 421 DYLINGIYVDI 431
| | | | | | | | | |
Db 421 DYLINGIYVDI 431

Search completed: April 26, 2005, 22:25:34
Job time : 1467 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 26, 2005, 21:38:57 ; Search time 52 Seconds
(without alignments)
797.489 Million cell updates/sec

Title: US-10-735-014-83
Perfect score: 2211
Sequence: 1 MFPGEGSLTYTLVICFLT.....LARKYSLDYLINGIYVDI 431

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues
Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : PIR 79: *
1: pir1: *
2: pir2: *
3: pir3: *
4: pir4: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	174.5	7.9	825	2 T29634	hypothetical prote
2	160.5	7.3	477	2 S53362	mucin 5AC (clone J
3	155.5	7.0	770	2 T22808	hypothetical prote
4	154.5	7.0	851	2 T22696	hypothetical prote
5	154	7.0	534	2 T39903	serine-rich protei
6	151.5	6.9	1251	2 T21389	hypothetical prote
7	150.5	6.8	797	1 VGBEX1	glycoprotein X pre
8	150.5	6.8	860	2 JC4566	chitinase (EC 3.2.
9	149.5	6.8	3020	2 A43932	mucin 2 precursor,
10	149.5	6.8	3570	2 T45025	mucin MUC5B, trach
11	147.5	6.7	790	2 T34293	hypothetical prote
12	147.5	6.7	1609	2 S23345	probable membrane
13	147	6.6	662	2 A45155	mucin FIM-C.1 - Af
14	146	6.6	786	1 A47547	serine proteinase
15	144.5	6.5	505	2 B46629	mucin 6, gastric (
16	144.5	6.5	1104	2 S59310	probable membrane
17	143	6.5	626	2 S53871	Pmel 17 protein -
18	142.5	6.4	377	2 A48018	mucin 7 precursor,
19	142.5	6.4	491	2 A49179	melanoma antigen h
20	142.5	6.4	866	2 T45462	membrane glycoprot
21	142.5	6.4	867	2 T45463	membrane glycoprot
22	141.5	6.4	1161	2 S57180	probable membrane
23	141	6.4	1777	2 T34369	hypothetical prote
24	140	6.3	292	2 S24169	mucin - rat
25	140	6.3	1275	2 T33369	hypothetical prote
26	138	6.2	909	1 ORXLL2	LDL receptor 2 pre
27	137.5	6.2	1630	2 A53577	ascites sialoglyco
28	137	6.2	528	2 T47141	gastric mucin (clo
29	136.5	6.2	1229	2 T25697	hypothetical prote

30	136	6.2	503	2 S63257	probable membrane
31	136	6.2	796	2 T21460	hypothetical prote
32	135.5	6.1	322	2 A53715	apomucin precursor
33	135.5	6.1	543	2 S35047	mucin JUL7 - human
34	135.5	6.1	1299	2 T47182	hypothetical prote
35	135.5	6.1	2271	2 F90073	hypothetical prote
36	134	6.1	164	2 T53641	mucin 5AC - human
37	133.5	6.0	708	2 T19474	hypothetical prote
38	133.5	6.0	3507	2 T34513	hypothetical prote
39	133	6.0	556	2 S51892	probable membrane
40	133	6.0	610	2 S35049	mucin JER57 - huma
41	133	6.0	636	2 S63131	probable membrane
42	133	6.0	1075	2 S48992	floculation prote
43	133	6.0	1367	2 S51959	hypothetical prote
44	132	6.0	1162	2 JH0557	exo-alpha-sialidas
45	131	5.9	725	2 A41258	a-agglutinin core

ALIGNMENTS

RESULT 1

T29634
hypothetical protein C12D12.1 - Caenorhabditis elegans
C:Species: Caenorhabditis elegans
C:Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C:Accession: T29634
R:Nhan, M.; Hawkins, J.
submitted to the EMBL Data Library, March 1996
A:Description: The sequence of C. elegans cosmid C12D12.
A:Reference number: Z20656
A:Accession: T29634
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-825 <NHA>
A:Cross-references: UNIPROT:Q17921; EMBL:U51998; PDB:AAA95080.1; GSPDB:GN00028; CESP: C1
A:Experimental source: strain Bristol N2; clone C12D12
C:Genetics:
A:Gene: CESP:C12D12.1
A:Map position: X
A:Introns: 48/1, 86/3; 137/1, 172/3; 224/3, 253/1; 287/3; 328/2; 454/1; 487/3; 692/1
C:Superfamily: Epstein-Barr virus membrane antigen gp350

Query Match 7.9%; Score 174.5; DB 2; Length 825;
Best Local Similarity 23.7%; Pred. No. 0.00064;
Matches 93; Conservative 40; Mismatches 144; Indels 115; Gaps 17;

QY	52	NEPVYTSQED-----CINSCCSTKNISGDKACNLMIFDTRK-----	-----	88
DB	363	NTPFFTRNANDTIEYCTVLSCSITIDGVK---IQITDKVQKVDDISYIFVNTIAN	419	
QY	89	-----TARQPCNYLFFC-----PNEEACPLKP--AKGLMSY---RIITDF	123	
DB	420	PGYHOISLKQGSYAFFYGNKLYSYGEGGANKPTVVLPAPPTPGTFYFVPTVSTWS	479	
QY	124	PSLTNLNPSQELPQDLSLLHGQFSQAVTPLAHHTDYSKPTDISWRDTLSQKFGSSDHLE	183	
DB	480	PPTVTVTPTTTPVP-----TTTTPPANPTT--ATPTTVG---TSKQNTTISPHLIS	526	
QY	184	KLFQWDEASQAQLLAYKEG-----HSQSQSFSSDQEIHLNLLPENVSALPATVAVASPH	236	
DB	527	TITGSIVTSTPTMAPQTSASPTTTHHTASQPTTKPV--VTNNSVTPSTGTTTTPVP-	583	
QY	237	TTSATPKATLLPTNASVTPGSTQPOLATTAPPVTTVTSQPTTLISVTFVRAAATLOA	296	
DB	584	TTTGSTTQTQTAPVTKPVPSSTTQ-----TAPPVTTPTSPPVTTSLTTLTTPTPVP	638	
QY	297	MAT-----TAVLTTFQA-----PTDSKGSLEITPPT	323	
DB	639	TTTVVPSSATVPTTPTTVAATTTSKAPVVTTTPTLAPTSTKPLTSPSPSTVGTSP-T	697	
QY	324	EISNLTLNKGNYNPNTALSMNVESSTWNKTA	355	

Db 698 APANLTPTTAPVNPVT--SSTTAPVNPPTS 727

RESULT 2

S53362

mucin 5AC (clone JER47) - human (fragment)

C;Species: Homo sapiens (man)

C;Date: 28-Oct-1996 #sequence_revision 07-Feb-1997 #text_change 09-Jul-2004

C;Accession: S53362; S71065

R;Guyonnet-Duperat, V.; Audie, J.P.; Debailleul, V.; Laine, A.; Buisine, M.P.; Galiegue-Biochem. J. 305, 211-219, 1995

A;Title: Characterization of the human mucin gene MUC5AC: a consensus cysteine-rich domain

A;Reference number: S53361; MUID:95126907; PMID:7826332

A;Accession: S53362

A;Status: nucleic acid sequence not shown

A;Molecule type: mRNA

A;Residues: 1-477 <GUY>

A;Cross-references: UNIPROT:Q14887; EMBL:Z34277

A;Experimental source: clone JER47

R;Porchet, N.

submitted to the EMBL Data Library, June 1994

A;Reference number: S71065

A;Accession: S71065

A;Molecule type: mRNA

A;Residues: 1-211, 'S', 213-224, 'AR', 227-259, 'S', 261-477 <POR>

A;Cross-references: EMBL:Z34277; NID:9563374; PIDN:CAA84031.1; PID:9563375

A;Experimental source: clone JER47

C;Genetics:

A;Gene: GDB:MUC5AC

A;Cross-references: GDB:454136; OMIM:158373

A;Map position: lip15.5-llp15.5

C;Keywords: glycoprotein; tandem repeat

Query Match 7.3%; Score 160.5; DB 2; Length 477;

Best Local Similarity 23.8%; Pred. No. 0.0028;

Matches 76; Conservative 41; Mismatches 117; Indels 85; Gaps 13;

Qy 147 SQAVTPLAHHTYDKPTDISW-----RDTLSQKFGSSDHL-----EKLFRWD--- 189

Db 15 SQVTRDCHLCTWKFDFPSPGGGKKEYNIIIRGEKICRPEITLQCRAE 74

Qy 190 ---EASAQLLAY-----KEKG-----HSQSQFSS---DOEIAHLLPENVSALPATVAVAS 234

Db 75 SHPEVSIIEHLQVQVCSREGLVCRNQDQGFPMCLNVEVRVLCCEPKGCPVT---ST 131

Qy 235 PHTTSATPKPATLPTNAS-----VTPGTSOPOLATTAPPVTTVTSOPPTLI 283

Db 132 PVTAFTSPGSRATSPQSTSSWQKSRITTLVTSTTSTPQSTTSAPTSTTSAPTSTT 191

Qy 284 STVETRAAATLQAMATTAVALTTTFOAPDTSKGSLET-----IPFTSISNLT 330

Db 192 SAPTTSTSTPQTSISSAPTSTTSAPTSTTSAPTSTTSAPTSTTSAPTSTTSAPT 250

Qy 331 NTGNVYNPTALSMGNE-----SSTMNKTASWEGREASP-----GSSSQGSVPEN 375

Db 251 TTSITSAFTTSTTPQSKTSAAATSSITSGGTPSPVTTTSTASVSKTSTSHVSVSKT 310

Qy 376 QYGLP-----FEKW 384

Db 311 THSQVTRDCHPRCTWTWK 329

RESULT 3

T22808

hypothetical protein F55B11.3 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans

C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004

C;Accession: T22808

R;Burton, J.

submitted to the EMBL Data Library, June 1996

A;Reference number: Z19618

A;Accession: T22808

A;Status: preliminary; translated from GB/EMBL/DBDJ

A;Molecule type: DNA

A;Residues: 1-770 <WIL>

A;Cross-references: UNIPROT:Q20908; EMBL:Z74473; PIDN:CAA98949.1; GSPDB:GN00023; CESP:F5

A;Experimental source: clone F56H9

C;Genetics:

A;Gene: CESP:F56H9.1

A;Map position: 5

A;Introns: 235/1; 262/2; 320/1; 367/2; 510/3; 654/1; 681/2

Query Match 7.0%; Score 155.5; DB 2; Length 770;

Best Local Similarity 32.7%; Pred. No. 0.011;

Matches 48; Conservative 16; Mismatches 64; Indels 19; Gaps 5;

Qy 219 LPENVSLPATVAVASPHHTTSATPKPATLPTNASVT-----PSGTSQPOLATTAPPV-- 271

Db 93 VPPTTSTTTTIV--PPPTTSTTTTIVPPPTTSTTTTIVPPPTTSTTTTIVPPPTT 150

Qy 272 --TTVTSQPPTTLISTVFTRAAATLQAMATTAVALTTTFOAPDTSKGSLETIPFTSISNLT 329

Db 151 TSTTTTIVPPPTTSTTTTIVPAT-----TTSTATTTTIVPPPTTSTTTTIVPPPTTSTTT 205

Qy 330 LNTGNVYNPTALSMNSNVESSTMNKTAS 356

Db 206 TTT---VPPTTSTTTTITLPTTT 229

RESULT 4

T22696

hypothetical protein F55B11.3 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans

C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004

C;Accession: T22696

R;Ainscough, R.

submitted to the EMBL Data Library, December 1996

A;Reference number: Z19601

A;Accession: T22696

A;Status: preliminary; translated from GB/EMBL/DBDJ

A;Molecule type: DNA

A;Residues: 1-851 <WIL>

A;Cross-references: UNIPROT:O17893; EMBL:Z83318; PIDN:CA805903.1; GSPDB:GN00022; CESP:F5

A;Experimental source: clone F55B11

C;Genetics:

A;Gene: CESP:F55B11.3

A;Map position: 4

A;Introns: 49/3; 123/3; 226/1; 282/3; 669/3; 743/3

Query Match 7.0%; Score 154.5; DB 2; Length 851;

Best Local Similarity 26.6%; Pred. No. 0.014;

Matches 47; Conservative 26; Mismatches 89; Indels 15; Gaps 4;

Qy 219 LPENVSLPATVAVAS-----PHTTSATPKPATLPTNASVTPSGTSQPOLATTAPPVT 272

Db 377 VPPTTIVPPPTTIVSTTTTIVPPPTTIVPPPTTIVPPPTTIVPPPTTIVPPPTTIVPPPTT 436

Qy 273 TTVTSQPPTTLISTVFTRAAATLQAMA--TTAVLTFTTFOAPDTS---KGSLETIPFTSIS- 326

Db 437 TTVTPPTTIVSTTTTIVPPPTTIVSTTTTIVPPPTTIVPPPTTIVPPPTTIVPPPTTIVPP 496

Qy 327 ---NLTLNTGNVYNPTALSMNSNVESSTMNKTASWEGREASPGSSSQGSVPENQYGLP 380

Db 497 PTTTIVPPPTTIVPPPTTIVPPPTTIVPPPTTIVPPPTTIVPPPTTIVPPPTTIVPPPTTIV 553

RESULT 5

T39903

serine-rich protein - fission yeast (Schizosaccharomyces pombe)

C;Species: Schizosaccharomyces pombe

C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 09-Jul-2004

C;Accession: T39903

R;Lyne, M.; Rajandream, M.A.; Barrell, B.G.; Rieger, M.

submitted to the EMBL Data Library, November 1998

A;Reference number: Z21889

A;Accession: T39903

Db 142 DGKQTNLRNGGCCSETSIQVLNSSDS--TWIIITTSOWMKANALINLLYCTPN--ACP 191
 Qy 108 LKPAKGLMSYRIIITDFPSLT-----RNLPQSELPOEDSLHGHQFSQAVTFLAHHHTDYSKP 163
 Db 198 QOSMLWTNCNLSTTSSSTWLSSTLLTTETERESSSTGS-IQTTPTPSEPTITTP 256
 Qy 164 TDISWRDTLSQKFGSSDHLEKLFKMDERASAOQLLAYKEKGHSQSQSFSSDQEIATHLHPNV 223
 Db 257 ME-----QSSTVSS----- 265
 Qy 224 SALPATVAVASPHHTSATPKPATLLPTNASVTPSGTSSQPOLATAPPVTVTSQPPITLI 283
 Db 266 -----VOKRTYSEDKPSSSTVTPISASTSESSSTSP-MAEYSSSSSTTQSSSPAST-- 314
 Qy 284 STVFTRAAATLQAMATTAV--LTTTFQAPTDSKGSLETIPTEISNLTLNTGNVYNPTAL 341
 Db 315 STV--PSSIVGSPPTGLTTLSTNEQSTSSSGHSTSTGTISE-TPEISDTDTAIST 371
 Qy 342 S-----MSNVESSTMNKTSWEGREASPGSSSQSVPNQYGLPF--EKWLL 386
 Db 372 SSSSDSSSTQSSNAQSTIENGSTTTNFTSAPSTSTPATPTTYNNWPGGTTWML 426

 RESULT 7
 VBEX1
 glycoprotein X precursor - equine herpesvirus 1 (strain Ab4p)
 C:Species: equine herpesvirus 1
 A:Note: host Equus caballus (domestic horse)
 C:Date: 30-Sep-1992 #sequence_revision 30-Sep-1992 #text_change 09-Jul-2004
 C:Accession: H36802
 R:Telford, E.A.R.; Watson, M.S.; McBride, K.; Davison, A.J.
 submitted to GenBank, March 1992
 A:Description: The DNA sequence of equine herpesvirus-1.
 A:Reference number: A36805
 A:Accession: H36802
 A:Molecule type: DNA
 A:Residues: 1-797 <TEL>
 A:Cross-references: UNIPROT:P28968; GB:M66664; NID:G330791; PIDN:AAB02506.1; P:
 R:Telford, E.A.R.; Watson, M.S.; McBride, K.; Davison, A.J.
 Virology 189, 304-316, 1992
 A:Title: The DNA sequence of equine herpesvirus-1.
 A:Reference number: A41831; MUID:92295566; PMID:1318606
 A:Contents: annotation; possible protein-coding frames
 A:Note: neither amino acid nor nucleotide sequence is given
 C:Genetics:
 A:Gene: 71
 C:Superfamily: equine herpesvirus glycoprotein X; equine herpesvirus 1 glycopro
 C:Keywords: Glycoprotein; transmembrane protein
 F:1-22/Domain: signal sequence #status predicted <Sig>
 F:23-797/Product: glycoprotein X #status predicted <Mat>
 F:23-465/Region: serine/threonine-rich
 F:489-797/Domain: equine herpesvirus 1 glycoprotein homology <EHG>
 F:766-790/Domain: transmembrane #status predicted <TMN>
 F:590/Binding site: carbohydrate (Asn) (covalent) #status predicted

 Query Match 6.88; Score 150.5; DB 1; Length 797;
 Best Local Similarity 24.36; Pred. No. 0.025;
 Matches 58; Conservative 25; Gaps 2

 Qy 158 TDYVKPTDISWRDTLSQKFGSDHLEKLFKMDERASAOQLLAYKEKGHSQSQSFSSDQEIAT 217
 Db 29 TTSSSTSGSGQSTSSSTTNNSSSPPTSPPTTSSSPPTSTHTSSPSSTSTQSSPSSTATSS 88
 Qy 218 LLPENVSLPATVAVASPHHTSATPKPATLLPTNASVTP----- 256
 Db 89 SAPSTASSSTSIPTSTSTETTTTPTASTTTPTTTTAAPTTAATTAVTAASTSAETTT 148
 Qy 257 ---SGTSQPOLAT-TAPPVTVTSQPPITLIISTVFTRAAATLQAMATTAVLTITTFQAPTD 312
 Db 149 ATATASTPTTPTTSTTTTATTTVPTTASTTDTTAAATTTAATTTAATTTAA 208
 Qy 313 SKGSLETIPTEISNLTLNTGNVYNPTALSMNSNVESSTMNKTSWEGREASPGSSSQGS 371


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QY 276 SQPPTLLIS-----TVFTRAAATLQAMATTAVLTTFQAPDTSKGSLETIPT 323
Db 1571 TPEPTTPSPPTTTPSPPTTITTTTPPTTTPSPPTT-----TTTPPPTTTPSPPTTPT 1627
QY 324 EISNLT 329
Db 1628 PPTSTT 1633

RESULT 10
T45025
mucin MUC5B, tracheobronchial [imported] - human (fragment)
C:Species: Homo sapiens (man)
C>Date: 21-Jan-2000 #sequence_revision 21-Jan-2000 #text_change 21-Jul-2000
C:Accession: T45025
R:Desseyn, J.L.; Guyonnet-Duperrat, V.; Porchet, N.; Aubert, J.P.; Laine, A.
J. Biol. Chem. 272, 3168-3178, 1997
A:Title: Human mucin gene MUC5B, the 10.7 kb large central exon encodes various alternat
A:Reference number: 222899; MUID:97166151; PMID:9013550
A:Accession: T45025
A:Status: preliminary; translated from GB/EMBL/DDBJ
A:Molecule type: DNA
A:Residues: 1-3570 <DES>
A:Cross-references: EMBL:272496; NID:g1834502; PIDN:CAA96577.1; PID:g1834503
A:Experimental source: placenta
C:Genetics:
A:Gene: MUC5B

Query Match 6.8%; Score 149.5; DB 2; Length 3570;
Best Local Similarity 30.5%; Pred. No. 0.19; Mismatches 22; Gaps 10;
Matches 62; Conservative 22; Indels 58; Indels 61; Gaps 10;

QY 204 SOSFSPSQEIAHLLPENVSALPATVAVA-SPHTTSATPKPATLLPTNASVTPSGTSQP 262
Db 626 SKATPSS-----PGTATALPALRSTATPTATSPAISSSL-----GTTWT 568

QY 263 QIATAPPVTV-----TSQPPTLLISTVFTRAAATLQAMA-----TTAVLT 304
Db 669 RLSQITPMATMSTAPSSPTPEVHTSTVLTTATTGATGATSVATPSPTPGTAHTTKVLT 728

QY 305 TT---FQA-PTDSKGSLETIPTEISNLTNT-----GNVNPATLSMSNVES 348
Db 729 TTTTGTATPSSPGARTLP-VWISTTTTPTTRGSTVTPSSIPGTHPTVLTITTTTV 787

QY 349 STMNKTASWEGREASPGSSSQS 371
Db 788 AT-----GSMATPSSSTQTS 802

RESULT 11
T34293
hypothetical protein F49E10.2 - Caenorhabditis elegans
C:Species: Caenorhabditis elegans
C>Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 09-Jul-2004
C:Accession: T34293
R:Miller, N.
submitted to the EMBL Data Library, April 1996
A:Description: The sequence of C. elegans cosmid F49E10.
A:Reference number: 221500
A:Accession: T34293
A:Status: preliminary; translated from GB/EMBL/DDBJ
A:Molecule type: DNA
A:Residues: 1-790 <MIL>
A:Cross-references: UNIPROT:Q20599; EMBL:U53341; PIDN:AAC69106.1; GSPDB:GN000028; CESP:F4
A:Experimental source: strain Bristol N2; clone F49E10
C:Genetics:
A:Gene: CESP:F49E10.2
A:Map position: x
A:introns: 51/1; 92/3; 176/3; 235/3; 332/2; 514/1; 543/2; 569/3; 677/1; 732/3

Query Match 6.7%; Score 147.5; DB 2; Length 790;
Best Local Similarity 25.6%; Pred. No. 0.039;
Matches 60; Conservative 34; Mismatches 107; Indels 33; Gaps 11;
```

```
QY 152 PLAHHTDYSKPTDISWRDTLSQKF--GSSDH--LEKLFKMDASQAQLLAYKEKHSQSS 207
Db 537 PGCFHNRFFSK-KDLG---LPEGFVGQSQYRPIEK--KQGFATLPLRKVSTVPPTTST 589
QY 208 QFSSDQEIHAHLLPENVSALPATVAVASPHTTSATPKPATLLPTNASVTPSGTSQPQLATT 267
Db 590 SSTTQK-----PSTTTTVFSTPTSTTTTTTTPKPTTSTSTSTSTTTTTTTTATT 644
QY 268 APPVTTVTSQPTTLLISTVFTRAAATLQAMATTAVLTTFQA-----PTDSKGSLETIPF 322
Db 645 PPTTTTTSKPKVLLTQTWTAPPTTVTKRTPQTVPVTPKIPRWPLAGSGSTEQ-PW 703
QY 323 TETISNLTNTGNVNPATLSMSNVESSTMNKTASWEGREASPGSSSQGSVPENQ 376
Db 704 WQ-----KVQTGQNTLPLPFPVSKRVEEKVKS-----AKP-NESDNKIPEQK 746

RESULT 12
S25345
probable membrane protein YCR089w - Yeast (Saccharomyces cerevisiae)
N:Alternate names: hypothetical protein YCR1102
C:Species: Saccharomyces cerevisiae
C>Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 09-Jul-2004
C:Accession: S25345; S19504
R:Wilson, C.; Grisanti, P.; Frontali, L.
Yeast 8, 569-575, 1992
A:Title: The complete sequence of a 6146 bp fragment of Saccharomyces cerevisiae chromo
A:Reference number: S25345; MUID:92397594; PMID:1523889
A:Accession: S25345
A:Molecule type: DNA
A:Residues: 1-1609 <WIL>
A:Cross-references: UNIPROT:P25653; GB:X59720; EMBL:S43845; NID:g1907116; PIDN:CAA42254
R:Frontali, L.; Grisanti, P.
submitted to the Protein Sequence Database, March 1992
A:Reference number: S19504
A:Accession: S19504
A:Molecule type: DNA
A:Residues: 1-1609 <FRO>
A:Cross-references: EMBL:X59720; NID:g1907116; PID:e264634; PID:g1907227; MIPS:YCR089w
C:Genetics:
A:Gene: SGD:PIG2
A:Cross-references: SGD:S0000685; MIPS:YCR089w
A:Map position: 3R
C:Keywords: transmembrane protein
F:4-20/Domain: transmembrane #status predicted <TM1>
F:1592-1609/Domain: transmembrane #status predicted <TM2>

Query Match 6.7%; Score 147.5; DB 2; Length 1609;
Best Local Similarity 22.4%; Pred. No. 0.095;
Matches 88; Conservative 63; Mismatches 164; Indels 77; Gaps 14;

QY 41 IOSSLKSGIRGNEPVYTSTQEDCINSCCSTKNISGDKACNLMIFDTR-----KTAROPNCY 96
Db 1057 IMSSSNVISTNEKPSSTTSPYNSGYSLPSSSTPSQYSLSTATTINGIKTV-----Y 1111
QY 97 LFECNEEACPLKPAKGLMSYRIITDFPSLTJNLPSQELPOEDSLHGFQSAVTPLAHH 156
Db 1112 TWCPLAEKSTV--AASSQSSRSVDRFVSSSK--PSSLSQ--TSQYTLSTATTISGL 1165
QY 157 HTDYSKPTDISWRDTLSQKFGSSDHLE-KLFKMDASQAQLLAYKEKHSQSSQ-----F 209
Db 1166 KTVYTTWCPLTSKSTLGATTQTSSTAKVRIITSASSATSTSISLSTSESSSGYLSKV 1225
QY 210 SSDQEIHAHLLPENVSALPATVAVASP-----HTTSATPKPAT-----LLPTNASV 254
Db 1226 CSGTECTQDVPTQ-SSSPASTLAYSPSVSTSSSSSFSTTASTLTSTHTSVPLPSSSSI 1284
QY 255 TSGSGTSQPQLATT---APPVTTVTSQPTTLLISTVFTRAAATLQAMA-----TTAVLT 304
Db 1285 SASSPSSSTLSLSTSLPSPAFSTSTLPTATAVSSSTFIASSLPLSKSLSPVSSSILM 1344
QY 305 TTFQAPTDSKGSLETIPTEISNLTNTGNVNP----- 339
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Db 1345 SQFSSSSSSSLASLPSLSISP-TVDTVSLQPTTGIATLTCTDSQQQEVSTICNGSN 1403
Qy 340 ---ALSMNVESSTMNKTASWEGREASPGSSS 368
Db 1404 CDDVTSTATPPSTVTDITCTGSECOKTTSS 1435

RESULT 13
mucin FIM-C.1 - African clawed frog (fragment)
C;Species: Xenopus laevis (African clawed frog)
C;Date: 26-May-1994 #sequence_revision 26-May-1994 #text_change 09-Jul-2004
C;Accession: A45155
R;Hauser, F.; Hoffmann, W. 24624, 1992
J. Biol. Chem. 267, 24620-24624, 1992
A;Title: P-domains as shuffled cytosine-rich modules in integrin mucin C.1 (FIM-C.1)
A;Reference number: A45155; MUID:93077556; PMID:1447205
A;Accession: A45155
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-662 <HAU>
A;Cross-references: UNIPROT:Q05049; GB:L02115; NID:g214147; PIDN:AAA74725.1; PID:g951460
F;162-202/Domain: trefoil homology <TRF1>
F;307-347/Domain: trefoil homology <TRF2>
F;354-394/Domain: trefoil homology <TRF3>
F;526-566/Domain: trefoil homology <TRF4>
F;573-613/Domain: trefoil homology <TRF5>
F;621-661/Domain: trefoil homology <TRF6>

Query Match 6.6%; Score 147; DB 2; Length 662;
Best Local Similarity 26.9%; Pred. No. 0.033;
Matches 49; Conservative 19; Mismatches 78; Indels 36; Gaps 5;

Qy 228 ATVAVASPHSTSPKPAATLLPTNASVTPSGTSQPLATAPPVTT-----VTSQPP 279
Db 394 STSQVAATKTT--TTPTTTTPTTTTAKATTTPTTTTPTTTTPTTTTPTTTTPTTTT 451

Qy 280 TLLSTVFTAAATLQAMATTAVALTTTFOAPDTSKGSLETIPFTEISNLTNTGNVNP 339
Db 452 TTTPTTTTAKATTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPT 506

Qy 340 ALSMNVESSTMNKTAS-----WEGREASPGSSSQGVSPENQ----YG 378
Db 507 TTTTITTTTAKATTTTSGECKWEPKRAADCGVPGITSGQSKGCCPDSISIPQTKWCFYS 566

Qy 379 LP 380
Db 567 LP 568

RESULT 14
A47547
serine proteinase stubble-stubloid (EC 3.4.21.-) - fruit fly (Drosophila melanogaster)
C;Species: Drosophila melanogaster
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004
C;Accession: A47547
R;Appel, L.F.; Prout, M.; Abu-Shumays, R.; Hammonds, A.; Garbe, J.C.; Fristrom, D.; Fristrom, D.; Acad. Sci. U.S.A. 90, 4937-4941, 1993
A;Title: The Drosophila stubble-stubloid gene encodes an apparent transmembrane serine
A;Reference number: A47547; MUID:93281671; PMID:7685111
A;Accession: A47547
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-786 <APP>
A;Cross-references: UNIPROT:Q05319; GB:L11451; NID:g158511; PIDN:AAA28918.1; PID:g158512
C;Genetics:
A;Gene: Sb-sbd
A;Cross-references: FlyBase:FBgn000319
C;Superfamily: serine proteinase stubble-stubloid; trypsin homology
C;Keywords: hydrolase; serine proteinase; transmembrane protein
F;61-77/Domain: transmembrane status predicted <TM>
F;543-781/Domain: trypsin homology <TRY>
```

```
Query Match 6.6%; Score 146; DB 1; Length 786;
Best Local Similarity 21.0%; Pred. No. 0.048;
Matches 74; Conservative 47; Mismatches 162; Indels 70; Gaps 9;

Qy 63 CINS---CCSTKNI SGDKACNLMI FDRKTRATQPCNYLFFCNEEACPLKPAKGLMSYR 118
Db 164 CVDSEFMFGSCCTHNYTD---NIVLPQATFSYTRPTKPLTLRPRPPAAYKP----- 211

Qy 119 IITDFPSLNRNLPSQELPQEDSLHGFQSFQAVTFLAHHHTD-----YSKPTDISW 168
Db 212 -----MISGMTIERP-----HGAGTVIRPSGPHGQGTARPHPPYQSKPT----- 254

Qy 169 RDTLSQKFGSSDHLKFLKMDKASQAQLLAYKKGHSQSSQSFSDQETIAHLHPENVSAL-- 226
Db 255 --TASDLHGASHPSSSSSSSSSSSNPNFSIWHSTTQQQQQHQHQNHQWMTPEPSITK 312

Qy 227 -----PATVAVASPHSTTS-----ATPKPATLLPTNASVTPSGTSQPOLA 265
Db 313 PRPTGWTKPGIVNLPMPARPSKPKTKPIVYDRSPPPSPSPSTSTSTSTSLIWA 372

Qy 266 TTAPPVTTVTSQPTTLLSTVFTAAATLQAMATTAVALTTTFOAPDTSKGSLETIPTEI 325
Db 373 QTHPPQPHRPTRPQLSGTSLAASSSHWPSSTTSTSTSTSTSTSTSTSTSTSTSTST 432

Qy 326 SNLTLN--TGNVYNPTALSMNVESSTMNKTASWEGREASPGSSSQGVSPENQ 376
Db 433 RRTTNKPTRPYQPTTATSSSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTST 485

RESULT 15
B46629
mucin 6, gastric (3-repeat clone) - human (fragment)
N;Alternate names: MUC6
C;Species: Homo sapiens (man)
C;Date: 21-Sep-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
C;Accession: B46629
R;Toribara, N.W.; Robertson, A.M.; Ho, S.B.; Kuo, W.L.; Gum, E.; Hicks, J.W.; Gum Jr., J.
J. Biol. Chem. 268, 5879-5885, 1993
A;Title: Human gastric mucin. Identification of a unique species by expression cloning.
A;Reference number: A46629; MUID:93194895; PMID:7680650
A;Accession: B46629
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-505 <TOR>
A;Cross-references: UNIPROT:Q14395; GB:L07518; NID:g292045; PIDN:AA561945.1; PID:g292046
A;Experimental source: stomach
A;Note: Sequence extracted from NCBI backbone (NCBIN:128397, NCBI:128399)
C;Genetics:
A;Gene: GDB:MUC6
A;Cross-references: GDB:134734; OMIM:158374
A;Map position: 1p15.5-1p15.5
C;Keywords: glycoprotein

Query Match 6.5%; Score 144.5; DB 2; Length 505;
Best Local Similarity 23.9%; Pred. No. 0.035;
Matches 78; Conservative 37; Mismatches 101; Indels 111; Gaps 15;

Qy 89 TARQPCNYLFFCNEEACPLKPAKGLMSYRIITDFPSLNRNLPSQELPQEDSLH-GQFS 147
Db 116 SSRPPPPPTTHSPPTGSSPFS-STGPMT---ATSFKT-TTTPPTPSLPQTTLTHVPPFS 170

Qy 148 QA-VTPLAHHHTDYSKPTDISWRDTLSQKFGSSDHLKFLKMDKASQAQLLAYKKGHSQS 206
Db 171 TSLVTPITH--TVITPT-----HPQ- 188

Qy 207 SQFSSDQEIHAHLHPENVSALPATV-----AVASPHSTSTATPKPALLP 249
Db 189 ---MSTSAIHSPTGTGIASTPTTKATRTSYTAPLMTATTSTRISQAHSSISTAKTSLH 245

Qy 250 TNAS-----VTPSGTSQPLATAPPVTTV-----SQPTTLLS-----TVF 287
Db 246 SHASSTHHPEVTPTSTTNVTPKSTSR-----DTSPVTHTTSATSSRRPTPTTHSSPTRS 301
```


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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 26, 2005, 20:26:45 ; Search time 122 Seconds
(without alignments)
1809.067 Million cell updates/sec

Title: US-10-735-014-83

Perfect score: 2211

Sequence: 1 MFFGEGSLTYLVIICFLT.....LRRKYSRLDYLINGIYVDI 431

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Uniprot_03.*

1: uniprot_sprot.*

2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2211	100.0	431	1 MNS1_HUMAN	Q9H8J5 homo sapien
2	2039	92.2	431	1 MNS1_MACFA	Q9SKG7 macaca fasc
3	2022	91.5	397	2 Q9NW60	Q9NW60 homo sapien
4	1164.5	52.7	414	1 MNS1_MOUSE	Q9CR33 mus musculus
5	503	22.7	194	2 Q8X0I0	Q8X0I0 mus musculus
6	197.5	8.9	392	2 Q8VCP2	Q8VCP2 mus musculus
7	197	8.9	449	2 Q9H2K4	Q9H2K4 homo sapien
8	196.5	8.9	392	2 Q9D8N1	Q9D8N1 mus musculus
9	188	8.5	449	2 Q96F05	Q96F05 homo sapien
10	180.5	8.2	1349	2 Q8WQ04	Q8WQ04 homo sapien
11	168	7.6	519	2 Q7YTR7	Q7YTR7 caenorhabdi
12	163	7.4	4262	2 Q685J2	Q685J2 homo sapien
13	163	7.4	4493	2 Q685J3	Q685J3 homo sapien
14	160.5	7.3	477	2 Q14887	Q14887 homo sapien
15	157.5	7.1	2448	2 Q8WQ05	Q8WQ05 homo sapien
16	156.5	7.1	328	2 Q00446	Q00446 homo sapien
17	155.5	7.0	769	2 Q17921	Q17921 caenorhabdi
18	154.5	7.0	784	2 Q6C185	Q6C185 yarrowia li
19	154	7.0	534	2 Q94317	Q94317 schizosacch
20	151.5	6.9	1240	1 YQ03_CAEEL	Q9XZ50 caenorhabdi
21	150.5	6.8	382	2 Q9XZ58	Q9XZ58 litomosoid
22	150.5	6.8	797	1 VGLX_EHV1B	P28968 equine herp
23	150.5	6.8	797	2 Q6DL00	Q6DL00 equid herpe
24	150.5	6.8	860	1 CH12_COCTM	P54197 coccidioid
25	149.5	6.8	5179	1 MUC2_HUMAN	Q9H844 homo sapien
26	149.5	6.8	5703	1 MUSB_HUMAN	Q9H844 homo sapien
27	149	6.7	943	1 YL61_SCHPO	Q8CF99 schizosacch
28	148.5	6.7	791	2 Q68VC3	Q68VC3 equid herpe
29	148.5	6.7	1233	1 MUSA_HUMAN	P98088 homo sapien
30	148	6.7	513	2 Q6V4A2	Q6V4A2 drosophila
31	148	6.7	2299	2 Q6A564	Q6A564 bacteroides

32	147.5	6.7	790	2	Q20599	Q20599 caenorhabdi
33	147.5	6.7	842	2	Q95QF5	Q95QF5 caenorhabdi
34	147.5	6.7	1609	1	P25653	P25653 saccharomyc
35	147	6.6	662	1	MUC1_XENLA	Q05049 xenopus lae
36	146	6.6	316	2	Q8VOM4	Q8VOM4 equid herpe
37	146	6.6	457	2	Q86AK1	Q86AK1 dictyosteli
38	146	6.6	472	2	Q6BHG8	Q6BHG8 debaryomyce
39	146	6.6	786	1	STUB_DROME	Q05319 drosophila
40	145.5	6.6	629	2	Q24017	Q24017 drosophila
41	145.5	6.6	716	2	Q9NYE4	Q9NYE4 homo sapien
42	145.5	6.6	901	2	Q6CAJ2	Q6CAJ2 yarrowia li
43	145	6.6	425	2	Q702W3	Q702W3 human herpe
44	145	6.6	1079	2	Q9N4S7	Q9N4S7 caenorhabdi
45	144.5	6.5	377	2	Q8TAX7	Q8TAX7 homo sapien

ALIGNMENTS

RESULT 1

ID	MNS1_HUMAN	STANDARD;	PRT;	431 AA.
AC	Q9H8J5; ORNECI;			
DT	05-JUL-2004 (Rel. 44, Created)			
DT	05-JUL-2004 (Rel. 44, Last sequence update)			
DT	05-JUL-2004 (Rel. 44, Last annotation update)			
DE	MNSC domain containing protein 1 precursor (UNQ316/PRO361).			
GN	Name=MNSC1;			
OS	Homo sapiens (Human)			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
OX	NCBI_TaxID=9606;			
RN	[1]_SEQUENCE FROM N.A.			
RP	SEQUENCE FROM N.A.			
RC	TISSUE=Placenta; DOI=10.1038/hgl1285;			
RX	PubMed=14702039; DOI=10.1038/hgl1285;			
RA	Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R.,			
RA	Omura Y., Abe K., Kanihara K., Katsuta N., Sato K., Tanikawa M.,			
RA	Wakame M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S.,			
RA	Yamamoto J.-I., Saito K., Kawai Y., Isono Y., Nakamura Y.,			
RA	Nagahari K., Murakami K., Yasuda T., Iwayanagi T., Wagatsuma M.,			
RA	Shiratori A., Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H.,			
RA	Sugawara M., Takahashi M., Kanda K., Yokoi T., Furuya T., Kikkawa E.,			
RA	Omura Y., Abe K., Kanihara K., Katsuta N., Sato K., Tanikawa M.,			
RA	Yamazaki M., Ninomiya K., Ishibashi T., Yamashita H., Murakawa K.,			
RA	Fujimori K., Tanai H., Kimata M., Watanabe M., Hiraoka S., Chiba Y.,			
RA	Ishida S., Ono Y., Takiguchi S., Watanabe S., Yosida M., Hotuta T.,			
RA	Kusano Y., Kanehori K., Takahashi-Fujii A., Hara H., Tanase T.-O.,			
RA	Nomura Y., Togiyama S., Komai F., Hara R., Takeuchi K., Arita M.,			
RA	Imose N., Musashino K., Yuuki H., Oshima A., Sasaki N., Aotsuka S.,			
RA	Yoshihara Y., Matsunawa H., Ichihara T., Shiohata N., Sano S.,			
RA	Moriya S., Momiyama H., Satoh N., Takami S., Terashima Y., Suzuki O.,			
RA	Nakagawa S., Senoh A., Mizoguchi H., Goto Y., Shimizu F., Wakebe H.,			
RA	Hishigaki H., Watanabe T., Sugiyama A., Takemoto M., Kawakami B.,			
RA	Yamazaki M., Watanabe K., Kumagai A., Itakura S., Fukuzawa Y.,			
RA	Fujimori Y., Komiyama M., Tashiro H., Tanigami A., Fujiwara T.,			
RA	Ono T., Yamada K., Fujii Y., Ozaki K., Hirao M., Ohmori Y.,			
RA	Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S.,			
RA	Okitani R., Kawakami T., Noguchi S., Itoh T., Shigeta K., Senba T.,			
RA	Matsumura K., Nakajima Y., Mizuno T., Morinaga M., Sasaki M.,			
RA	Togashi T., Oyama M., Hata H., Watanabe M., Komatsu T.,			
RA	Mizushima-Sugano J., Satoh T., Shirai Y., Takahashi Y., Nakagawa K.,			
RA	Okumura K., Nagase T., Nomura N., Kikuchi H., Masuho Y., Yamashita R.,			
RA	Nakai K., Yada T., Nakamura Y., Ohara O., Isogai T., Sugano S.,			
RT	"Complete sequencing and characterization of 21,243 full-length human			
RT	cdnas";			
RL	Nat. Genet. 36:40-45 (2004).			
RP	SEQUENCE FROM N.A.			
RX	MEDLINE=24887296; PubMed=12975309; DOI=10.1101/gr.1293003;			
RA	Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Bruch J.,			
RA	Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,			
RA	Eaton D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heldens S.,			

RA Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,
RA Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,
RA Seehagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagtes A.,
RA Vandlen R., Watanabe C., Wiedand D., Woods K., Xie M.-H., Yansura D.,
RA Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,
RA Godowski P., Gray A.,
RT "The secreted protein discovery initiative (SPDI), a large-scale
RT effort to identify novel human secreted and transmembrane proteins: a
RT bioinformatics assessment.",
RL Genome Res. 13:2265-2270(2003).
RN [3]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haie H.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Uesdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Rana S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smallos D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.,
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.",
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
CC -!- SUBCELLULAR LOCATION: Type I membrane protein (Potential).
CC -!- SIMILARITY: Contains 1 MANSC domain.
CC
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CC EMBL; AK023622; BAB14621.1; -;
DR EMBL; AY358563; AAQ88926.1; -;
DR EMBL; BC032998; AAH32998.1; -;
DR Genbank; HGNC:25505; MANSC1.
DR InterPro; IPR011106; MANSC_N.
DR Pfam; PF07502; MANSC; 1.
DR PROSITE; PS0986; MANSC; 1.
KW Glycoprotein; Signal; Transmembrane.
FT SIGNAL 1 26 Potential.
FT CHAIN 27 431 MANSC domain containing protein 1.
FT DOMAIN 27 385 Extracellular (Potential).
FT TRANSMEM 386 408 Potential.
FT DOMAIN 409 431 Cytoplasmic (Potential).
FT DOMAIN 33 117 MANSC.
FT DOMAIN 237 332 Thr-rich.
FT CARBOHYD 72 72 N-linked (GlcNAc...) (Potential).
FT CARBOHYD 222 222 N-linked (GlcNAc...) (Potential).
FT CARBOHYD 251 251 N-linked (GlcNAc...) (Potential).
FT CARBOHYD 327 327 N-linked (GlcNAc...) (Potential).
FT CARBOHYD 352 352 N-linked (GlcNAc...) (Potential).
FT CONFLICT 55 55 V -> I (in Ref. 3).
SQ SEQUENCE 431 AA; 46810 MW; 189136416F0F89AE CRC64;

Query Match 100.0%; Score 2211; DB 1; Length 431;
Best Local Similarity 100.0%; Pred. No. 3.3e-136;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
1 MFFGEGSLTYLVIIICFLTLRLSASQNCCLKSLEDVVIDIQSSLSKIRGNEPVTSTQ 60

Db 1 MFFGEGSLTYLVIIICFLTLRLSASQNCCLKSLEDVVIDIQSSLSKIRGNEPVTSTQ 60
Qy 61 EDICNSCCSTKNISGDKACNLMIPTDKTARQNCVLFPCNEEACPLKPAKGLMSYRII 120
Db 61 EDICNSCCSTKNISGDKACNLMIPTDKTARQNCVLFPCNEEACPLKPAKGLMSYRII 120
Qy 121 TDFPSLTRNLPSQELPQEDSLHGFQSOAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD 180
Db 121 TDFPSLTRNLPSQELPQEDSLHGFQSOAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD 180
Qy 181 HLEKLFKMDSEASQALLAYKEKHSQSFSSDQEIHLHPENVSALPATVAVASPHHTSA 240
Db 181 HLEKLFKMDSEASQALLAYKEKHSQSFSSDQEIHLHPENVSALPATVAVASPHHTSA 240
Qy 241 TPKPATLLPNASVTPSGTSQPOLATPAPVTTVTSQPTTLTSTVFTRAAALQAMATT 300
Db 241 TPKPATLLPNASVTPSGTSQPOLATPAPVTTVTSQPTTLTSTVFTRAAALQAMATT 300
Qy 301 AVLTTFQAPTDKSGLETPFTPEISNLTNGVYNPTALSMSNVESSTMNKTASWEGR 360
Db 301 AVLTTFQAPTDKSGLETPFTPEISNLTNGVYNPTALSMSNVESSTMNKTASWEGR 360
Qy 361 EASFGSSSQSVPEVGYLPFEKWLIGSLFGVLFVIGLVLLGRILSSLRKRYSL 420
Db 361 EASFGSSSQSVPEVGYLPFEKWLIGSLFGVLFVIGLVLLGRILSSLRKRYSL 420
Qy 421 DYLLINGIYVDI 431
Db 421 DYLLINGIYVDI 431
RESULT 2
NSC1 MACFA STANDARD; PRT; 431 AA.
ID _MACFA AC Q95KG7;
DT 05-JUL-2004 (Rel. 44, Created)
DT 05-JUL-2004 (Rel. 44, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE MANSC domain containing protein 1 precursor (QtrA-13483).
GN Name=MANSC1;
OS Macaca fascicularis (Crab eating macaque) (Cynomolgus monkey).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopitheidae;
OC Cercopitheidae; Macaca.
OX NCBI_TaxID=9541;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RA Oasda N., Hida M., Kusuda J., Tanuma R., Iseki K., Hirai M., Terao K.,
RA Suzuki Y., Sugano S., Hashimoto K.,
RT "Isolation of full-length cDNA clones from macaque brain cDNA
RT libraries.",
RL Submitted (APR-2001) to the EMBL/GenBank/DBJ databases.
CC -!- SUBCELLULAR LOCATION: Type I membrane protein (Potential).
CC -!- SIMILARITY: Contains 1 MANSC domain.
CC
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CC or send an email to license@isb-sib.ch).
CC
CC EMBL; AB060888; BAB46892.1; -;
DR InterPro; IPR011106; MANSC_N.
DR Pfam; PF07502; MANSC; 1.
KW Glycoprotein; Signal; Transmembrane.
FT SIGNAL 1 26 Potential.
FT CHAIN 27 431 MANSC domain containing protein 1.
FT DOMAIN 27 385 Extracellular (Potential).
FT

OS MUS MUSCULUS (MOUSE) .

Db	207	TPXPATLLPTNASVTPSGTSQPQLATTAPPVTTVTSPPTTLISTVFTRAAATLQAMATT	266
Qy	301	AVLTFTTFOAPTDSKGSLETTPTFTESISNLTLNTGNVYNPTALSMSNVESSTWNKKTASWGR	360
Db	267	AVLTFTTFOAPTDSKGSLETTPTFTESISNLTLNTGNVYNPTALSMSNVESSTWNKKTASWGR	326
Qy	361	EASPGSSSQSGSPENQYGLPFPEKWLIGCSLLFGVLFLVIGLVLLGRILLESILRRKRYSRLL	420
Db	327	EASPGSSSQSGSPENQYGLPFPEKWLIGCSLLFGVLFLVIGLVLLGRILLESILRRKRYSRLL	386
Qy	421	DYLINGIYVDI 431	
Db	387	DYLINGIYVDI 397	

RESULT 4

MNSI_MOUSE	STANDARD;	PRT;	414 AA.
ID	MNSI_MOUSE		
AC	Q9CRJ33; Q80V71;		
DT	05-JUL-2004 (Rel. 44, Created)		
DT	05-JUL-2004 (Rel. 44, Last sequence update)		
DT	05-JUL-2004 (Rel. 44, Last annotation update)		
DE	MANSC domain containing protein 1 precursor.		
GN	Name=ManSci;		
OS	Mus musculus (Mouse).		

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Cecum, Colon, and Medulla oblongata;
 RX MEDLINE=22354683; PubMed=12456851; DOI=10.1038/nature01266;
 RA Okazaki Y., Furuno M., Kasukawa T., Adachi H., Bono H., Kondo S.,
 RA Nakado I., Osato N., Salto R., Suzuki H., Yamanaka I., Kiyosawa H.,
 RA Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach C., Gojobori T.,
 RA Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,
 RA Schriml L.M., Braden A., Matsuda H., Batalov S., Beisel K.W.,
 RA Blake J.A., Bradt D., Brusic V., Chothia C., Corbani L.E., Cousins S.,
 RA Dalla E., Dragani T.A., Fletcher C.F., Forrest A., Frazer K.S.,
 RA Gaasterland T., Gariboldi M., Glessi C., Godzik A., Gough J.,
 RA Grimmond S., Gustincich S., Hirokawa N., Jackson I.J., Jarvis E.D.,
 RA Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,
 RA Konagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
 RA Maglott D.R., Maltais L., Marchionni L., McKenzie L., Miki H.,
 RA Nagashima T., Numata K., Okido T., Pavan W.J., Pertea G., Pesole G.,
 RA Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramchandran S., Sato K.,
 RA Ravasi T., Reed J.C., Reid J., Ring B.Z., Ringwald M.,
 RA Sandelin A., Schneider C., Sempile C.A., Setou M., Shimada K.,
 RA Sultana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,
 RA Verardo R., Wagner L., Wahlestedt C., Wang Y., Watanabe Y., Wells C.,
 RA Wilming L.G., Wyshaw-Boris A., Yanagisawa M., Yang I., Yang L.,
 RA Yuan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,
 RA Harozane-Kishikawa T., Konno H., Nakamura M., Sakazume N., Sato K.,
 RA Shiraki T., Waki K., Kawai J., Aizawa K., Arakawa T., Fukuda S.,
 RA Hara A., Hashizume W., Imotani K., Ishii Y., Itoh M., Kagawa I.,
 RA Miyazaki A., Sakai K., Sasaki D., Shibata K., Shinagawa A.,
 RA Yasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J.,
 RA Birney E., Hayashizaki Y.;
 RT "Analysis of the mouse transcriptome based on functional annotation of
 RT 60,770 full-length cDNAs";
 RL Nature 420:563-573(2002).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=FVB/N; TISSUE=Breast tumor;
 RX MEDLINE=22388257; PubMed=12477933; DOI=10.1073/pnas.242603899;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altschul S.F., Jordan B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heish F.,
 RA Datchenko L., Narusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Scapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Udén T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
 RA Bobak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., Sanchez A.,
 RA Fahey J., Helton E., Kettman M., Madan A.C., Rodriguez S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickinson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
 RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
 RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length human
 RT and mouse cDNA sequences";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 CC -!- SUBCELLULAR LOCATION: Type I membrane protein (Potential).
 CC -!- SIMILARITY: Contains 1 MANSO domain.
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 CC -----
 CC EMBL; AK018660; BAB31329.1; -
 CC EMBL; AK018635; BAB31319.1; -
 DR

DR EMBL; AK033526; BAC28341.1; -
 DR EMBL; AK033557; BAC28357.1; -
 DR EMBL; AK046837; BAC32892.1; -
 DR EMBL; BC039930; AHA39930.1; -
 DR MGD; MGI:1914979; 9130403P13Rik.
 DR InterPro; IPR011106; MANSO_N.
 DR Pfam; PF07502; MANSO; 1.
 DR PROSITE; PS00986; MANSO; 1.
 KW Glycoprotein; Signal; Transmembrane.
 FT SIGNAL 1 24 Potential.
 FT CHAIN 25 414 MANSO domain containing protein 1.
 FT DOMAIN 25 369 Extracellular (Potential).
 FT TRANSMEM 370 392 Potential.
 FT DOMAIN 393 414 Cytoplasmic (Potential).
 FT DOMAIN 32 116 MANSO.
 FT CARBOHYD 128 128 N-linked (GlcNAc...) (Potential).
 FT CARBOHYD 234 234 N-linked (GlcNAc...) (Potential).
 FT CARBOHYD 335 335 N-linked (GlcNAc...) (Potential).
 FT CONFLICT 11 13 SLL -> ALV (in Ref. 2).
 FT CONFLICT 56 56 L -> V (in Ref. 2).
 FT CONFLICT 63 63 I -> V (in Ref. 2).
 FT CONFLICT 139 139 F -> S (in Ref. 2).
 FT CONFLICT 170 170 R -> G (in Ref. 2).
 FT CONFLICT 192 192 M -> T (in Ref. 2).
 FT CONFLICT 242 242 E -> A (in Ref. 2).
 FT CONFLICT 275 275 G -> A (in Ref. 2).
 SQ SEQUENCE 414 AA; 44822 MW; 29BB9197C916BA8E CRC64;
 Query Match 52.7%; Score 1164.5; DB 1; Length 414;
 Best Local Similarity 59.9%; Pred. No. 6; le-68;
 Matches 258; Conservative 37; Mismatches 119; Indels 17; Gaps 6;
 QY 1 MFEGGSLTYLTVLTCFLTLRLSASQCNLKSLEDVWIDIQSSLSKIGRNEPVYSTQ 60
 DB 1 MLFRGT-SLAYSLELVISFLTPRSSAGQCNLTKSLEDVWIDIQSSLSKIGRNEPIHLATQ 59
 QY 61 EDCINCCSTKNI-SGDKACNLMIFDTRKTARQPCNLYFCFNEEACPLKPAKGLMSYRII 120
 DB 60 EDCIGACCSKDIAGDKACNLMIFDTRKTDRQPCNLYFCFNEEACPLKPAKGLTVYRLI 119
 QY 121 TDFPSLTRNPQSELPOEDSLHGGQSQAVTPIAHHTDYSKPTDISWRDTLSQKFGSSD 180
 DB 120 RDPFLTSANSLOQTQGEFLLDHSPGATPGFRTPAGYKPTGLSWDSRSLSKSTAPL 179
 QY 181 HLKELFMDEASQALLAYKEKHSQSQSFSSDDEIAHLHPENVSALPATVAVASPHPTSA 240
 DB 180 HLKRLHKADSTMQQL--PEEKSHSQSLQSLSELMKMAHLLEKTVPTPTTVAAPLRNVA 237
 QY 241 TPKPATLLPTNASVTPSGTSQPOLATTAPPVTVTSQPTTLISTVFTRAAATLQAWATT 300
 DB 238 TLKPELLL-TSISVAKTLKQKE-ATTASPVTVTSKLPVPGVSGTSFT-----PVVTHQ 289
 QY 301 AVLTTPQATDSKGSLETPFTTEISNLTNGVNTALSMNVESSTMTKNTASWEGR 360
 DB 290 AALTNTPTQATDSKGLIETMPFGGSLT-----SDPRHGKSTSESSITNTKTSWEDR 343
 QY 361 EASPGSSQGSVPENQYGLPEKWLIGSLFLGVLFLVIGLVLGRILSRLKRYSL 420
 DB 344 RVSVGSASLNKNGPSQGLSFEKWLIGLTLGLVFLVIGLVLGRMLVEALRKRYSRL 403
 QY 421 DYLINGIYVDI 431
 DB 404 DYLINGIYVDI 414
 RESULT 5
 Q8K010
 ID Q8K010 PRELIMINARY; PRT; 194 AA.
 AC Q8K010;
 DT 01-OCT-2002 (TrEMBLrel. 22, Created)
 DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
 DE MANSO protein (fragment).

GN Name=Mansci;
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 [1]
 RN SEQUENCE FROM N.A.
 RC STRAIN=FVB/N; TISSUE=Liver;
 RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Shenmen C.M., Schuler G.D.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altshul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Udwin T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahy J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
 RA Krzywinski M.I., Skalska U., Smallos D.E., Schnerch A., Schein J.E.,
 RA Jones S.J., Marra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length human
 and mouse cDNA sequences.";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=FVB/N; TISSUE=Liver;
 RA Strausberg R.;
 RL Submitted (DEC-2001) to the EMBL/GenBank/DBJ databases.
 DR EMBL; BC019471; AAH19471.1;
 DR MGD; MGI:1914372; AAH31372.1;
 DR GO; GO:0005615; C:extracellular space; TAS.
 DR GO; GO:0016021; C:integral to membrane; TAS.
 FT NON TER 1
 SQ SEQUENCE 194 AA; 20701 NW; 11C1F299E1FB3C44 CRC64;
 Query Match 22.7%; Score 503; DB 2; Length 194;
 Best Local Similarity 59.5%; Pred. No. 3.5e-25;
 Matches 122; Conservative 13; Mismatches 56; Indels 14; Gaps 4;
 QY 227 PATVAVSPHTTSATPKPATLLPTNASVTPSGTSPQATAPPVTTVSOPPTTLSTV 286
 DB 4 PTTVAVAPLRNVSATLKPALL--TSISVATKTKKE--ATTHASPTVTTSKLPVPGSTS 61
 QY 287 FTRAAATLQAMATTAVLTTFQAPDTSKGSLETIPFTISNLTNGVNPFTALSMGNV 346
 DB 62 FT-----PVVTHQAALNTFQAHDTSGILETMEFQGGSTLT-----SOPRHCKSSTS 109
 QY 347 ESSTWNKTASWEGREASPGSSQGVSPENQYGLPPEKMLLGLSLFGLVFLVIGLVILGR 406
 DB 110 ESSITNTKTSWEDRRVSVGSASLNKPKSGHLSPEKMLLIGTLICGLVFLVIGLVILGR 169
 QY 407 ILSESILRRKYSRLDYLINGIYVDI 431
 DB 170 MLVEALRRKYSRLDYLINGIYVDI 194
 RESULT 6
 ID Q8VCP2 PRELIMINARY; PRT; 392 AA.
 AC Q8VCP2;
 DT 01-MAR-2002 (TrEMBLrel. 20, Created)
 DT 01-MAR-2002 (TrEMBLrel. 20, Last sequence update)
 DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
 DE 1810055G02Rik protein.
 GN Name=1810055G02Rik;
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 [1]
 RN SEQUENCE FROM N.A.
 RC STRAIN=FVB/N; TISSUE=Liver;
 RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Shenmen C.M., Schuler G.D.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altshul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Udwin T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahy J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
 RA Krzywinski M.I., Skalska U., Smallos D.E., Schnerch A., Schein J.E.,
 RA Jones S.J., Marra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length human
 and mouse cDNA sequences.";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=FVB/N; TISSUE=Liver;
 RA Strausberg R.;
 RL Submitted (DEC-2001) to the EMBL/GenBank/DBJ databases.
 DR EMBL; BC019471; AAH19471.1;
 DR MGD; MGI:1914372; AAH31372.1;
 DR GO; GO:0005615; C:extracellular space; TAS.
 DR GO; GO:0016021; C:integral to membrane; TAS.
 SQ SEQUENCE 392 AA; 41081 NW; 1D79796C791211FA CRC64;
 Query Match 8.9%; Score 197.5; DB 2; Length 392;
 Best Local Similarity 26.5%; Pred. No. 7.3e-05;
 Matches 89; Conservative 37; Mismatches 115; Indels 95; Gaps 14;
 QY 156 HHTDYKPTDTSWRDTLSKQFGSSDHLKLFKMDKASQALLAYKEKHSQSSQF----- 209
 DB 88 HGTNTSTPT-----TREGTIDRV-----TSRTLAAPTSSGSPSSAQTPTTIA 130
 QY 210 ---SSDQIEAHLLENVSALPAT--VAVASPHTT-----SATPKPATLLPTN 251
 DB 131 GLPSLSTPHAEVPRTNASVSPRTAMATVAPHTATLAAGTNTSDPHRTPTSPAKSTPTD 190
 QY 252 -ASVTPSGTSPQATAPPVTT-----VTSQPPPTTLISTVFTRAAAT 293
 DB 191 TSSKNPIPTSGAQIGTIVTQVLTQDPVHSTAGRSALSPSNATLEPTTQVQTK-EPSAST 249
 QY 294 LQAMATTAVLTTFQAPDTSKGSLETIPFTISNLTNGVNPFTALSMGNVESSTWNK 353
 DB 250 VPARATSLSPDVIDISPTTQPS--PTLP-----TQGTGG--PGTLTTEQVGKTTSG 298
 QY 354 TASWEGREASPGSSQGSV-----PENQYGLPFE-----KWLIGSLLPQV 394
 DB 299 TAS-----AGPTSRSSGDIKVPTTDSQPSQTGGQVLTIDALTPLSNKMLLVLLVGV 353
 QY 395 LFLVIGLVLLGRILSRLRRKYSRLDYLINGIYVD 430
 DB 354 TLFTAVLVMPALQAYESYKKDYTQVDYLINGMYAD 389
 RESULT 7
 ID Q9H2K4 PRELIMINARY; PRT; 449 AA.
 AC Q9H2K4;
 DT 01-MAR-2001 (TrEMBLrel. 16, Created)
 DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)

Query Match 8.9%; Score 196.5; DB 2; Length 392;
 Best Local Similarity 26.1%; Pred. No. 8.4e-05;
 Matches 88; Conservative 42; Mismatches 110; Indels 97; Gaps 15;

QY 156 HHTDYSKPTDISWRDITLQKFGSDHLEKLFKMDSEASACALLAYKEGHSGSQSFSSDQRI 215
 DB 88 HGTNTSTPT-----TREGTTRV-----TSRTLVPTSSGSSAEQRTPTTI 129

QY 216 AHL-----LPE-NVSALPAT--VAVASPHTT-----SATPKPATLLPT 250
 DB 130 AGLPSLSTPHAEPRTNASVSRPTAMAATVAHTATLAAGTVNTSDPHRTTSPAKSIPT 189

QY 251 N-ASVTPSGTSQPOLATAPPVTT-----VTSOPPTLLISTVETRAAA 292
 DB 190 DTSSKNPIPTSGAQIGTIVLTQPVHSTAGRSALSPSNATLEPTTTQVQTK-EPAS 248

QY 293 TLQAMATTAVLTITQAPTDKSGSLETIPFTEISNLTNTGNVNPATLSMSNVSSTMN 352
 DB 249 TVPARATSLSPVDVISPRTQPS--PTLP-----TQGTGG--PGTLLTTTQVGTKTTS 297

QY 353 KTASMEGRASPGSSSQGSV-----PENQYGLPFE-----KWLIGSLALFG 393
 DB 298 GTAS-----AGTSRSSGDIKVPYTTDSQPSQGGYLVITIDALTSLVNKMLLVLLVVG 352

QY 394 VLFLVIGLVLLGRILSESRLRKRYRLDYLINGIYVD 430
 DB 353 VTLFIAVLVWFALQAYESYKKDYQTVQVYLINGMYAD 389

RESULT 9

Q96F05 PRELIMINARY; PRT; 449 AA.

AC Q96F05; TISSUE=Skin;
 ID Q96F05; MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
 DT 01-DEC-2001 (TReMBLrel. 19, Created)
 DT 01-DEC-2001 (TReMBLrel. 19, Last sequence update)
 DT 25-OCT-2004 (TReMBLrel. 28, Last annotation update)
 DE Chromosome 11 open reading frame 24 (FP2568) (Cllorf24).
 GN Name=Cllorf24; ORFNames=UNQ1872;
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]

RP SEQUENCE FROM N.A.
 RC TISSUE=Skin;
 RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh P.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Frange C.,
 RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahy J., Helton E., Kettner M., Madan A., Rodriguez S., Sanchez A.,
 RA Whitting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
 RA Krzywinski M.I., Skalska U., Smalls D.E., Schnerch A., Schein J.E.,
 RA Jones S.J., Marra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length human
 and mouse cDNA sequences.";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
 RN [2]

RP SEQUENCE FROM N.A.
 RC TISSUE=Skin;
 RA Strausberg R.;
 RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
 RN [3]

RP SEQUENCE FROM N.A.
 RA Huang Y., Zhou X.M., Zhang P.P., Jiang H.Q., Qin W.X., Zhao X.T.,
 RA Wan D.F., Gu J.R.;
 RL Submitted (APR-2001) to the EMBL/GenBank/DBJ databases.
 RN [4]

RP SEQUENCE FROM N.A.
 RX MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;
 RA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J.,
 RA Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,
 RA Eaton D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heldens S.,
 RA Huang A., Kim H.S., Kilmowski L., Jin Y., Johnson S., Lee J.,
 RA Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,
 RA Seshagiri S., Simons L., Singh J., Smith V., Stinson J., Vagts A.,
 RA Vandlen R., Watanabe C., Wieand D., Woods K., Xie M.H., Yansura D.,
 RA Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,
 RA Godowski P.;
 RT "The secreted protein discovery initiative (SPDI), a large-scale
 effort to identify novel human secreted and transmembrane proteins: a
 bioinformatics assessment.";
 RL Genome Res. 13:2265-2270 (2003).
 DR EMBL; BC011765; AAH11765.1; -;
 DR EMBL; AF370372; AAQ15208.1; -;
 DR EMBL; AY358754; AAO89114.1; -;
 DR EMBL; HGNC:1174; Cllorf24;
 DR InterPro; IPR001395; Aldo/ket_red.
 DR PROSITE; PS00063; ALDOKETO_REDUCTASE_3; UNKNOWN 1.
 SQ SEQUENCE 449 AA; 46142 MW; BF984AA360F6C415 CRC64;

Query Match 8.5%; Score 188; DB 2; Length 449;
 Best Local Similarity 22.0%; Pred. No. 0.00036;
 Matches 116; Conservative 49; Mismatches 167; Indels 196; Gaps 18;

QY 13 LVIIICFLRLSASQCLKSKSLEDVVIDIQSSLSKIRGNEPVYTSIOEDCINSCSTKN 72
 DB 5 LVLIWIFSLSESSEHAASNDPRFVPMKGLVKRNASVETVDNKTSEDVTMAAS --- 61

QY 73 ISGDKACNLMIFDTRKTARQPCNYLFFCPNBEACPKPAKGLMSYRIITDPFSLRNPLS 132
 DB 62 -----PVLTKG-----TSAHLNS 76

QY 133 QELPQEDSLHGQSQAVTPLAHHTDYSKPTDISWRDITLQKFGSSDHLEKLFKMDSEAS 192
 DB 77 MEVTTEDT-----SRTDVSEP-----ATSGVADGVTSIAPTAVAS 112

QY 193 AQLLAYKEKHSQSSQSFSSDOEIAHLLENVSALPATVAVASPHT-----TSATPKPATL 247
 DB 113 STTAA-----SITTAASMTVASSAP-TTAASSTTVASIAPTTAASMTAASSTPMTL 164

QY 248 ---LPTNASV--TPS--GTSQPOLATAPPVTTVTSQPTLLISTVFTTAAATLQAMATT 300
 DB 165 ALPAPTSTGTSTGTTATGHPSLSTALAQVPSALPRTATLATRA-----QTVAAT 220

QY 301 A-----VLTTFQAPTDSKG 315

DB 221 ANTSPMSTRSPSKHMPSDTAASVPVPMRFOAQGPISQVSDQPVVNTNKSTPMPSNT 280

QY 316 SLEITPFTFTEISNLTNTGNVNPATL-----SWS-NVESSTMNKTASWEG- 359
 DB 281 TPEAPPTTV--VTTTKAQAREPTASVPVPHSTSPIPEEAMSPPTQSPMPYTORAAGP 338

QY 360 -----REASPGSSQGSVPENQYG--LP-----FE 382
 DB 339 GTSQAPEQVETEATPGTDSTGTPRSGGTKMPATDSQPSQTGGYVWVVTTEPLTQAVVD 398

QY 393 KWLIGSLFLGVLLVIGLVLLGRILSESRLRKRYRLDYLINGIYVD 430
 DB 399 KTLALLVLLGLVTLFIVLVLFALQAYESYKKDYQTVQVYLINGMYAD 446

RESULT 10

Q8WWQ4 PRELIMINARY; PRT; 1349 AA.
 ID Q8WWQ4
 AC Q8WWQ4;

QY 341 LSMSNVESSTWNTKASWEGREASPGSSSGS 371
Db 252 TSSTSAPTSTTTPQTSKTSATSTSTSGS 282

RESULT 15

Q8WQWQ5
ID Q8WQWQ5 PRELIMINARY; PRT; 2448 AA.
AC Q8WQWQ5;
DT 01-MAR-2002 (TrEMBLrel. 20, Created)
DT 01-MAR-2002 (TrEMBLrel. 20, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin 5 (Fragment).
GN Name=MUC5AC;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Trachea;
RX MEDLINE=21426417; PubMed=11535137; DOI=10.1042/0264-6021:3580763;
RA Escande F., Aubert J.P., Porchet N., Buisine M.P.;
RT "Human mucin gene MUC5AC: organization of its 5'-region and central
repetitive region.";
RL Biochem. J. 358:763-772 (2001).
DR EMBL; AJ298317; CAC83674.1; -.
DR HSPF; F56682; ICCV.
DR Genew; HGNC:7515; MUC5AC.
DR Pfam; PF01826; TIL; 2.
DR Pfam; PF00094; VWD; 3.
DR SMART; SM00214; VWC; 3.
DR SMART; SM00216; VWD; 3.
DR PROSITE; PS00527; RIBOSOMAL_S14; UNKNOWN_2.
FT NON TER 2448 2448
SQ SEQUENCE 2448 AA; 260968 MW; A5C1BD627844D952 CRC64;

Query Match 7.1%; Score 157.5; DB 2; Length 2448;
Best Local Similarity 23.1%; Pred. No. 0.29; Gaps 16;
Matches 87; Conservative 38; Mismatches 142; Indels 109; Gaps 16;
QY 63 CIN-----SCCSTKNISGDKACNLMI FDRKTARQPNLCYLFCCPNEACPLKPAKGLMSY 117
Db 2034 CYNVEIRIQCCETVNV-----CRDITRPKTKVATTRPTPH-----PTGAQTQT 2076
QY 118 RIITDFSLRNLP---SQELPQEDSLLHGQFSQAVTFLAHHTDYSKPTDISW----- 168
Db 2077 TFTTHMFSASTEQTATSRGGTATSVTQGTHTTPTVTRNCHPRCTWTTFWEDVDPSPGPH 2136
QY 169 ---RDTLSQKFGSDHLEKLFKMDASAQILAYKEKGHSOSS-----QFSSDQ----- 213
Db 2137 GGDKEYNNIIRSG---EKICRRPEEITRLQC-RAKSHPEVSIHGLGVQCSEEGVLC 2192
QY 214 -----ETIAHLLPENVSALPATVASPHHTSATPKPATLLIPTNAS----- 253
Db 2193 RNQDQOGPFKMCNIEVRVLCCECTPKGCPVT---STPVTAPSTPSGRAISPTQSTSSWQK 2249
QY 254 -----VTPGTSQPOLATT-----AP-----PVTTVTSQPTTLISTVFTFAA 291
Db 2250 SRTTTLVTSTSTPQSTTVAHTTSTTSAPTARTTAPTSTTSVPTTSTISGPKTTPS 2309
QY 292 ATLQAMATVLTTFQAPDTSKGSLETIPFTEISNLTNGVNYNPNTALSMNSVESSTM 351
Db 2310 PVPTTSTTSATTTISAPTSTTS---VPGTTSPV-LITSTTSAPT-----TR 2355
QY 352 NKTASWEGREASPGSS 367
Db 2356 TTSASPAGTSGPGNT 2371

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OM protein - nucleic search, using frame_plus_p2n model

Run on: April 26, 2005, 21:59:56 ; Search time 4716 Seconds
(without alignments)

4428.371 Million cell updates/sec

Title: US-10-735-014-83

Perfect score: 2211

Sequence: 1 MFFGEGSLTYTLVICFLT.....LRRKYSRLDYLINGIYVDI 431

Scoring table: BLOSUM62

Xgapop 10.0 , Xgapext 0.5

Ygapop 10.0 , Ygapext 0.5

Fgapop 6.0 , Fgapext 7.0

Delop 6.0 , Delext 7.0

Searched: 4708233 seqs, 24227607955 residues

Total number of hits satisfying chosen parameters: 9416466

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

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-DB=GenEmbl -QFMT=fastap -SUFFIX=rge -MINMATCH=0.1 -LOOPEXT=0 -LOOPEXT=0

-UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi -LIST=45

-DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15 -MODE=LOCAL

-OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000

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-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG

-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6

-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

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2: gb.htg.*

3: gb.in.*

4: gb.om.*

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6: gb.pat.*

7: gb.ph.*

8: gb.pl.*

9: gb.pr.*

10: gb.ro.*

11: gb.sts.*

12: gb.sv.*

13: gb.un.*

14: gb.vl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2211	100.0	2284	6	BD140585
2	2211	100.0	2284	6	AR252736
3	2211	100.0	2284	6	AR429104
4	2211	100.0	2284	6	AR534995

5	2211	100.0	2284	6	AX403627	AX403627 Sequence
6	2211	100.0	2284	9	AY358563	Homo sapi
7	2211	100.0	2297	6	BD160088	Primer fo
8	2211	100.0	2297	6	AX883044	Sequence
9	2211	100.0	2297	9	AK023622	Homo sapi
10	2210	100.0	2333	9	BC032998	Homo sapi
11	2062	93.3	2015	6	BD227259	Secreted
12	2039	92.2	2345	9	AB060888	Macaca fa
13	2022	91.5	2221	6	BD155963	Primer fo
14	2022	91.5	2221	6	CQ776818	Sequence
15	2022	91.5	2221	6	AX876122	Sequence
16	2022	91.5	2221	9	AK001160	Homo sapi
17	1573.5	71.2	14000	9	AC007621	Homo sapi
18	1573.5	71.2	188344	2	AC131617	Homo sapi
19	1216	55.0	735	6	CQ735543	Sequence
20	1179.5	53.3	2286	10	BC039930	Mus muscu
21	1164.5	52.7	2286	6	CQ777667	Sequence
22	835	37.8	548	6	BD059530	Secreted
23	780.5	35.3	805	6	BD149896	Primer fo
24	780.5	35.3	805	6	AX869834	Sequence
25	764.5	34.6	855	6	BD147198	Primer fo
26	764.5	34.6	855	6	AX867136	Sequence
27	709.5	32.1	110134	2	AC149660	Bos tauru
28	683.5	30.9	224870	2	AC129657	Rattus no
29	683.5	30.9	250782	2	AC128093	Rattus no
30	678	30.7	195959	2	AC126692	Mus muscu
31	678	30.7	236589	2	AC118035	Mus muscu
32	633	28.6	422	6	BD071236	Secreted
33	522	23.6	1627	5	AJ719946	Gallus ga
34	503	17.5	1326	10	BC031372	Mus muscu
35	386	12.7	188344	2	AC131617	Homo sapi
36	338.5	15.3	242590	2	AC133722	Rattus no
37	271.5	12.3	236589	2	AC118035	Mus muscu
38	242	10.9	295	6	AX894034	Sequence
39	242	10.9	295	6	BD029567	Sequence
40	228	10.3	110134	2	AC149660	Bos tauru
41	221	10.0	2165	5	BX929877	Gallus ga
42	204	9.2	1919	10	BC019471	Mus muscu
43	201	9.1	2058	9	AF264781	Homo sapi
44	199	9.0	171026	2	BX572619	Danio rer
45	197	8.9	112864	2	AC024127	Homo sapi

ALIGNMENTS

RESULT 1
BD140585

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

BD140585 2284 bp DNA linear PAT 18-SEP-2002
Polypeptides and nucleic acids encoding the same.

BD140585

BD140585.1 GI:23235530

JP 2002505850-A/68.

Homo sapiens (human)

Homo sapiens

Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 2284)

Wood, W.I., Goddard, A., Gurney, A.L., Yuan, J., Baker, K.P. and

Zheng, J.

Patent: JP 2002505850-A 68 26-FEB-2002;

GENENTECH INC

OS Homo sapiens (human)

PN JP 2002505850-A/68

PF 01-DEC-1998 JP 2000523338

PR 03-DEC-1997 US 60/067411, 11-DEC-1997 US 60/069334 PR

11-DEC-1997 US 60/069335 11-DEC-1997 US 60/069278 PR

12-DEC-1997 US 60/069425, 16-DEC-1997 US 60/069696 PR

16-DEC-1997 US 60/069694, 16-DEC-1997 US 60/069702 PR

17-DEC-1997 US 60/069870, 17-DEC-1997 US 60/069870 PR

18-DEC-1997 US 60/068017, 05-JAN-1998 US 60/070440 PR

09-FEB-1998 US 60/074086, 09-FEB-1998 US 60/074092 PR

25-FEB-1998 US 60/075945
PI WILLIAM I WOOD, AUDREY GODDARD, AUSTIN L GURNEY, JEAN YUAN, KEVIN
P BAKER
PI JIAN ZHENG
PC C12N15/09, C07K14/47, C07K16/18, C12N1/19, C12N1/21, C12N5/10, PC
C12P21/02,
CC Polypeptides and nucleic acids encoding the same PH Key
Location/Qualifiers
FT source 1. .2284 /organism="Homo sapiens (human)".
FT Location/Qualifiers
1. .2284 /organism="Homo sapiens"
source /mol_type="genomic DNA"
/db_xref="taxon:9606"

ORIGIN
Alignment Scores:
Pred. No.: 5,79e-112 Length: 2284
Score: 2211.00 Matches: 431
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 6 Gaps: 0

US-10-735-014-83 (1-431) x BD140585 (1-2284)

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Db 226 ATGTTCTCGGGGAGAGGAGCTTACACTTTGGTAATAATTGCTTCTCGACA 285

Qy 21 LeuArgLeuSerAlaSerGlnAsnCysLeuLysSerLeuGluAspValIleAsp 40
Db 286 CTAAAGGCTGCTGCTAGTCAGAAATGGCTCAAAAAGAGCTTAGAAGATGTTGTCAATGAC 345

Qy 41 IleGlnSerLeuSerLysGlyIleArgGlyAsnGluProValTyrThrSerThrGln 60
Db 346 ATCCAGTCATCTCTTCTAAGGGAATCAGAGCAATGAGCCCGTATATACCTCACTCAA 405

Qy 61 GluAspCysIleAsnSerCysCysSerThrLysAsnIleSerGlyAspLysAlaCysAsn 80
Db 406 GAAGACTGCATTAATCTTCTGCTGTTCAACAAAAACATATCAGGGGACAAAGCATGTAAC 465

Qy 81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysTyrLeuPhePheCys 100
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Qy 101 ProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeuMetSerTyrArgIleIle 120
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Qy 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer 140
Db 586 ACAGATTTTCCATCTTTACCCAGAAATTTGCCAAGCCCAAGAGTTACCCAGGAAGATTCT 645

Qy 141 LeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAlaHisHisThrAspTyr 160
Db 646 CTCCTTACATGCCAAATTTTCAACAGCAGTCACTCCCTAGCCCATCATCACAGATTAT 705

Qy 161 SerLysProThrAspIleSerTrpArgAspThrLeuSerGlnLysPheGlySerSerAsp 180
Db 706 TCAAGCCACCGGATATCTATGAGAGACACACTTCTCAGAGTTTGGATCTCAGAT 765

Qy 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrLysGlu 200
Db 766 CACCTGGAGAAATATTTAAGATGATGAAGCAAGTGGCCAGCTCTTGTCTTATAAGGAA 825

Qy 201 LysGlyHisSerGlnSerSerClnPheSerSerAspGlnGluIleAlaHisLeuPro 220
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221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrThrSerAla 240

Db 886 GAAATCTGAGTGGCTCCAGCTACGGTGGCAGTTGCTTCTCCACATACACCTCGCT 945
Qy 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260
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Qy 261 GlnProGlnLeuAlaThrAlaProProValThrThrValThrSerGlnProProThr 280
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Qy 281 ThrIleLysSerThrValPheThrArgAlaAlaAlaThrLeuGlnAlaMetAlaThrThr 300
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Qy 301 AlaValLeuThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
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Qy 321 ProPheThrGluIleSerAsnLeuThrLeuAsnThrGlyAsnValTyrAsnProThrAla 340
Db 1186 CCGTTTACAGAATCTCCAACCTTAACCTTGAACACAGGGAATGTGTATATAACCTTACTGCA 1245
Qy 341 LeuSerMetSerAsnValGluSerSerThrMetAsnLysThrAlaSerTrpGluGlyArg 360
Db 1246 CTTTCTATGTCAAATGTGGAGTCTTCCACTATGAATAAAACTGCTTCTCGGAAGGTAGG 1305
Qy 361 GluAlaSerProGlySerSerSerGlnGlySerValProGluAsnGlnTyrGlyLeuPro 380
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Qy 381 PheGluLysTrpLeuLeuIleGlySerLeuLeuPheGlyValLeuPheLeuValIleGly 400
Db 1366 TTTGAAAAATGGCTTCTATTCGGGTCCCTGCTCTTTGGTCTCTGTTCTTGGTGATAGGC 1425
Qy 401 LeuValLeuLeuGlyArgIleLeuSerGluSerLeuArgLysArgLysArgTyrSerArgLeu 420
Db 1426 CTGCTCTCTCTGGTGAATCTTTCGAAATCACTCCGAGGAAACGTTACTCAAGACTG 1485
Qy 421 AspTyrLeuLeuAsnGlyIleTyrValAspIle 431
Db 1486 GATTATTGATCAATGGATCTATGTGGATC 1518

RESULT 2
AR252736 2284 bp DNA linear PAT 20-DEC-2002
LOCUS AR252736 Sequence 514 from patent US 6478825.
DEFINITION AR252736
ACCESSION AR252736
VERSION AR252736.1 GI:27300644
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 2284)
AUTHORS Winterbottom,J.M., Shimp,L., Boyce,T.M. and Kaes,D.
TITLE Implant, method of making same and use of the implant for the
treatment of bone defects
JOURNAL Patent: US 6478825-A 514 12-NOV-2002;
FEATURES Location/Qualifiers
1. .2284 /organism="unknown"
/mol_type="genomic DNA"

ORIGIN
Alignment Scores:
Pred. No.: 5,79e-112 Length: 2284
Score: 2211.00 Matches: 431
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 6 Gaps: 0

US-10-735-014-83 (1-431) x AR252736 (1-2284)

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QY 21 LeuArgLeuSerAlaSerGlnAsnCysLeuLysLeuLysSerLeuGluAspValIleAsp 40
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QY 61 GluAspCysIleAsnSerCysCysSerThrLysAsnIleSerGlyAspLysAlaCysAsn 80
 Db 406 GAAGACTGCAATTAATTTCTGCTTCAACAAAAACATATCAGGGGACAAAGCATGTAAC 465

QY 81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysThrLeuPheCys 100
 Db 466 TTGATGATCTTCGACACTCGAAAAACAGCTAGACAACTGCTACCTATTTTCTGT 525

QY 101 ProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeuMetSerThrArgIleIle 120
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QY 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer 140
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QY 141 LeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAlaHisHisThrAspThr 160
 Db 646 CTCCTACATGGCCAAATTTTCAAGCAGTCACTCCCTAGCCCATCATCACAGATTAT 705

QY 161 SerLysProThrAspIleSerTrpArgAspThrLeuSerGlnLysPheGlySerSerAsp 180
 Db 706 TCAGAGCCACCGATATCTCATGGAGAGACACACTTCTCAGAGTTTGGATCTCTCAGAT 765

QY 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaThrLysGlu 200
 Db 766 CACCTGGAGAAACTATTTAAGATGGATGAAGCAAGTGCCAGCTCTCTTTATAGGAA 825

QY 201 LysGlyHisSerGlnSerGlnPheSerAspGlnGluIleAlaHisLeuLeuPro 220
 Db 826 AAAGGCCATTTCTCAGAGTTTCACAATTTCTCTGATCAAGAAATAGCTCATCTGCTGCT 885

QY 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrSerAla 240
 Db 886 GAATATGTAGTGGCTCCAGCTACGTTGGAGTGTCTTCTCCACATACCACTCGGCT 945

QY 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260
 Db 946 ACTCCAAAGCCGCCACCTTCTACCCCAATGCTTTCAGTGACACCTTCTGGACTTCC 1005

QY 261 GlnProGlnLeuAlaThrThrAlaProProValThrValThrSerGlnProProThr 280
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QY 281 ThrLeuIleSerThrValPheThrArgAlaAlaAlaThrLeuGlnAlaMetAlaThrThr 300
 Db 1066 ACCCTCATTTCTACAGTTTTTACAGGGCTGGGCTGAGCTCAAGCAATGGCTCAACA 1125

QY 301 AlaValLeuThrThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
 Db 1126 GCAGTTCGACTACCACTTTTTCAGGCACCTACGGACTCGAAGGAGCTTAGAACCAT 1185

QY 321 ProPheThrGluIleSerAsnLeuThrLeuAsnThrGlyAsnValThrAsnProThrAla 340
 Db 1186 CCGTTTACAGAAATCTCCAATTAATTTTGAACACAGGGAATGTGTATAACCTACTGCA 1245

QY 341 LeuSerMetSerAsnValGluSerSerThrMetAsnLysThrAlaSerTrpGluGlyArg 360
 Db 1246 CTTTCTATGCAATGTGGAGTCTTCCATCATGAAATAAACTGCTTCTCTGGGAAGTAGG 1305

QY 361 GluAlaSerProGlySerSerSerGlnGlySerValProGluAsnGlnThrGlyLeuPro 380
 Db 1306 GAGGCGAGTCCAGGAGTTCCTCCAGGCGAGTGTTCAGAAAATCAGTACGCGCTTCCA 1365

QY 381 PheGluLysTrpLeuLeuIleGlySerLeuLeuPheGlyValLeuPheLeuValIleGly 400
 Db 1366 TTTGAAAAATGGCTTCTTATCGGTTCCCTCTTCTTGGTGTCTCTGTCTCTGTGATAGG 1425

QY 401 LeuValLeuLeuGlyArgIleLeuSerGluSerLeuArgArgLysArgThrSerArgLeu 420
 Db 1426 CTCGCTCTCTCGGTAGATCTCTTTCGGAATCACTCCGAGGAAACGTTACTCAAGACTG 1485

QY 421 AspThrLeuIleAsnGlyIleThrValAspIle 431
 Db 1486 GATTATTGATCAATGGGATCTATGTGGACATC 1518

RESULT 3
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 LOCUS AR429104 2284 bp DNA linear PAT 18-DEC-2003
 DEFINITION Sequence 82 from patent US 6642360.
 ACCESSION AR429104
 VERSION AR429104.1 GI:40189199
 KEYWORDS
 SOURCE Unknown.
 ORGANISM
 Unclassified.
 REFERENCE 1 (bases 1 to 2284)
 AUTHORS Filvaroff, E., Goddard, A., Godowski, P.J., Grimaldi, J.C., Gurney, A.L.
 and Wood, W.I.
 TITLE Secreted polypeptides that stimulate release of proteoglycans from cartilage
 JOURNAL Patent: US 6642360-A 82 04-NOV-2003;
 FEATURES Location/Qualifiers
 source 1..2284
 /organism="unknown"
 /mol_type="genomic DNA"

ORIGIN
 Alignment Scores:
 Pred. No.: 5,79e-112 Length: 2284
 Score: 2211.00 Matches: 431
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 6 Gaps: 0
 US-10-735-014-83 (1-431) x AR429104 (1-2284)

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QY 21 LeuArgLeuSerAlaSerGlnAsnCysLeuLysLeuLysSerLeuGluAspValIleAsp 40
 Db 286 CTAAGGCTGTGCTAGTCAGAAATTCCTCAAAAAGAGCTAGAGATGTTGTCATGAC 345

QY 41 IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValThrThrSerThrGln 60
 Db 346 ATCCAGTCATCTCTTTCTAAGGGAATCAGAGGCAATGAGCCGTATATATCTCAACTCA 405

QY 61 GluAspCysIleAsnSerCysCysSerThrLysAsnIleSerGlyAspLysAlaCysAsn 80
 Db 406 GAAGACTGCAATTAATTTCTGCTTCAACAAAAACATATCAGGGGACAAAGCATGTAAC 465

QY 81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysThrLeuPheCys 100
 Db 466 TTGATGATCTTCGACACTCGAAAAACAGCTAGACAACTGCTACCTATTTTCTGT 525

QY 101 ProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeuMetSerThrArgIleIle 120
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QY 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer 140

Db 586 ACAGATTTCATCTTTGACCAAGAAATTTGCCAAGCAAGAGTTACCCAGAGATTCT 645
Qy 141 LeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAlaHisHisThrAspTyr 160
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Qy 161 SerLysProThrAspIleSerTyrArgAspThrLeuSerGlnLysPheGlySerSerAsp 180
Db 706 TCAAAGCCACCGATATCTCATGGAGAGACACATTTCTCAGAAGTTTGGATCTCTCAGAT 765
Qy 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrLysGlu 200
Db 766 CACCTGGAGAACTATTAAAGATGATGATGAAGCAAGTGCACAGCTCTTGTCTTAAGGAA 825
Qy 201 LysGlyHisSerGlnSerSerGlnPheSerSerAspGlnGluIleAlaHisLeuLeuPro 220
Db 826 AAAGGCCATTCTCAGAGTTCAAAATTTTCTCTCATCAAGAAATAGCTCATCTCTGCTGCT 885
Qy 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrSerAla 240
Db 886 GAAATGTGAGTGGCTTCTCCAGCTACGGTGGCAGTTGCTTCTCCATACACCTCGGCT 945
Qy 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260
Db 946 ACTCAAAGCCCGCCACCTTCTACCCACCAATGCTTCAGTGACACCTTCTGGGACTTCC 1005
Qy 261 GlnProGlnLeuAlaThrValAlaProProValThrValThrValThrSerGlnProThr 280
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Qy 281 ThrLeuIleSerThrValPheThrArgAlaAlaAlaThrLeuGlnAlaMetAlaThrThr 300
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Db 1366 TTTGAAAAATGGCTTCTTATCGGGTCCCTGCTCTTTGGTGTCTTCTGCTGATAGGC 1425
Qy 401 LeuValLeuLeuGlyArgIleLeuSerGluSerLeuArgAtGlyLysArgTyrSerArgLeu 420
Db 1426 CTGTCCTCTGGGTAGAACTCTTTCGGAATCACTCCGACGAAACGTTTACTCAGACTG 1485
Qy 421 AspTyrLeuIleAsnGlyIleTyrValAspIle 431
Db 1486 GATTATTGTCAATGGGATCTATGTGACATC 1518

RESULT 4
AR534995
LOCUS AR534995 2284 bp DNA linear PAT 08-OCT-2004
DEFINITION Sequence 82 from patent US 6734288.
ACCESSION AR534995
VERSION AR534995.1 GI:53925785
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.

REFERENCE 1 (bases 1 to 2284)
AUTHORS Filvaroff,E., Goddard,A., Godowski,P.J., Grimaldi,J.C., Gurney,A.I.
and Wood,W.I.
TITLE Antibodies against a secreted polypeptide that stimulates release
of proteoglycans from cartilage
JOURNAL Patent: US 6734288-A 82 11-MAY-2004;
FEATURES Location/Qualifiers
source 1. 2284
/organism="unknown"
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ORIGIN

Alignment Scores:
Pred. No.: 5,79e-112 Length: 2284
Score: 2211.00 Matches: 431
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 6 Gaps: 0

US-10-735-014-83 (1-431) x AR534995 (1-2284)

Qy 1 MetPhePheGlyGlyGluGlySerLeuThrTyrThrLeuValIleIleCysPheLeuThr 20
Db 226 ATGTTCTTCGGGGAGAGGGAGCTTGACTTACACTTTGGTAATAATTTGCTTCTCTGACA 285
Qy 21 LeuArgLeuSerAlaSerGlnAsnCysLeuLysLysSerLeuGluAspValValIleAsp 40
Db 286 CTAAGGCTGTCTGTAGTCAGAAATTTGCTCAAAAGAGTCTAGAAAGATTTGTCATTGAC 345
Qy 41 IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValTyrThrSerThrGln 60
Db 346 ATCCAGTCATCTCTTCTAAGGGAATCAGAGCAATCAGCCGTTATATCTTCAACTCAA 405
Qy 61 GluAspCysIleAsnSerCysSerThrLysAsnIleSerGlyAspLysAlaCysAsn 80
Db 406 GAAGACTGCATTAATTTCTGCTGTTCACAAAAACATATCAGGGGCAAGCATGTAAC 465
Qy 81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysTyrLeuPhePheCys 100
Db 466 TTGATGATCTTCGACATCTCGAAACACAGCTAGACACCCAACTGCTACTATTTTCTGT 525
Qy 101 ProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeuMetSerTyrArgIleIle 120
Db 526 CCACACGAGGAAGCTCTCCATTGAAACCAAGCAAGAGCTTATGAGTTACAGGATAATT 585
Qy 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnLysAspSer 140
Db 586 ACAGATTTCATCTTTGACCAGAAATTTGCCAAGCCAAAGAGTTTACCCAGGAAGATTCT 645
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 Sequence 514 from Patent WO0073454.

AX403627
 AX403627.1 GI:21437090

KEYWORDS

SOURCE Homo sapiens (human)

ORGANISM

Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE

AUTHORS

Ashkenazi, A.J., Baker, K.P., Botstein, D., Deanov, L., Eaton, D.,
 Ferrara, N., Gerber, H., Gertsen, M., Goddard, A., Godowski, P.,
 Grimaldi, C.J., Gurney, A.L., Kljavin, I., Napier, M.A., Pan, J.,
 Paoni, N.F., Roy, M., Stewart, T.A., Tamas, D., Watanabe, C.K.,
 Williams, P., Wood, W.I. and Zhang, Z.

Secreted and transmembrane polypeptides and nucleic acids encoding
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Patent: WO 0073454-A 514 07-DEC-2000;

Genentech Inc. (US)

FEATURES

source

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 Score: 2211.00 Matches: 431
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
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US-10-735-014-83 (1-431) x AX403627 (1-2284)

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 Db 1486 GATTATTGATCAATGGATCTAATGTGACATC 1518

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 DEFINITION Homo sapiens clone DNA45410 FFG316 (UNQ316) mRNA, complete cds.
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 VERSION AY358563.1 GI:37182247
 KEYWORDS FLI CDNA.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 2284)

Clark,H.F., Gurney,A.L., Abaya,E., Baker,K., Baldwin,D., Brush,J.,
 Chen,J., Chow,B., Chui,C., Crowley,C., Currell,B., Deuel,B.,
 Dowd,P., Eaton,D., Foster,J., Grimaldi,C., Gu,Q., Hass,P.E.,
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 Lee,J., Lewis,L., Liao,D., Mark,M., Robbie,E., Sanchez,C.,
 Schoenfeld,J., Seshagiri,S., Simmons,L., Singh,J., Smith,V.,
 Stinson,J., Vagts,A., Vanden,R., Watanabe,C., Wieand,D., Woods,K.,
 Xie,M.H., Yansura,D., Yi,S., Yu,G., Yuan,J., Zhang,M., Zhang,Z.,
 Goddard,A., Wood,W.I. and Godowski,P.

The Secreted Protein Discovery Initiative (SPDI), a Large-Scale
 Effort to Identify Novel Human Secreted and Transmembrane Proteins:

A Bioinformatics Assessment

Genome Res. 13 (10), 2265-2270 (2003)

12975309

2 (bases 1 to 2284)

Clark,H.F.

Direct Submission

Submitted (01-AUG-2003) Department of Bioinformatics, Genentech,

Inc., 1 DNA Way, South San Francisco, CA 94080, USA

Location/Qualifiers

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ORIGIN

Alignment Scores:
 Pred. No.: 5.79e-112 Length: 2284
 Score: 2211.00 Matches: 431
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
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 Db 226 ATGTTCCTTCGGGGAGAGGAGCTTGACTTACACTTTGGTAATAAATTCCTCTCTGACA 285
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 ACCESSION BD160088
 VERSION BD160088.1 GI:27865846
 KEYWORDS JP 2002191363-A/14931.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 1 (bases 1 to 2297)
 Ota,T., Isogai,T., Nishikawa,T., Hayaashi,K., Saito,K., Yamamoto,J.,
 Ishii,S., Sugiyama,T., Wakamatsu,A., Nagai,K. and Otsuki,T.
 TITLE Primer for synthesizing full-length cDNA and use thereof
 JOURNAL Patent: JP 2002191363-A 14931 09-JUL-2002;
 HELIX RESEARCH INSTITUTE
 OS Homo sapiens (human)
 PN JP 2002191363-A/14931
 PD 09-JUL-2002
 PF 28-JUL-2000 JP 2000280990
 PI TOSHIO OTA, TAKAO ISOGAI, TETSUO NISHIKAWA, KOJI HAYASHI, KAORU
 PI JUNICHI YAMAMOTO, SHIZUKO ISHII, TOMOYASU SUGIYAMA, AI WAKAMATSU,
 PI KEIICHI NAGAI, TETSUJI OTSUKI
 PC C12N15/09, C07K14/47, C07K16/18, C12N1/15, C12N1/19, C12N1/21, C12N5/ 10, PC
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 Primer for synthesizing full-length cDNA and use thereof FH Key
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 Best Local Similarity: 100.00% Mismatches: 0
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US-10-735-014-83 (1-431) x BD160088 (1-2297)

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ACCESSION AX883044
VERSION AX883044.1 GI:40037945
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SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
AUTHORS Ota, T., Isogai, T., Nishikawa, T., Hayashi, K., Saito, K., Yamamoto, J.,
Ishii, S., Sugiyama, T., Wakamatsu, A., Nagai, K. and Otsuki, T.
TITLE Primers for synthesising full-length cDNA and their use
JOURNAL Patent: EP 1074617-A 17949 07-FEB-2001;
Research Association for Biotechnology (JP)
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US-10-735-014-83 (1-431) x AX883044 (1-2297)

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 Strausberg,R.L., Feingold,B.A., Grouse,L.H., Derge,J.G.,
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Villalon,D.K., Muzny,D.M., Sodergren,E.J., Lu,X., Gibbs,R.A.,
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 Dickson,M.C., Rodriguez,A.C., Grimwood,J., Schmutz,J., Myers,R.M.,
 Butterfield,Y.S., Krzyzinski,M.I., Skalska,U., Smalhus,D.E.,
 Schnerch,A., Schein,J.E., Jones,S.J. and Marra,M.A.
 Generation and initial analysis of more than 15,000 full-length
 human and mouse cDNA sequences
 Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
 12477932
 REFERENCE 2 (bases 1 to 2333)
 AUTHORS Strausberg,R.
 TITLE Direct Submission
 JOURNAL Submitted (21-JUN-2002) National Institutes of Health, Mammalian
 Gene Collection (MGC), Cancer Genomics Office, National Cancer
 Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
 USA
 REMARK NTH-MGC Project URL: http://mgc.nci.nih.gov
 COMMENT On Aug 25, 2003 this sequence version replaced gi:21542502.
 Contact: MGC help desk
 Email: gcgaps-x@mail.nih.gov
 Tissue Procurement: Miklos Palkovits, M.D., Ph.D.
 cDNA Library Preparation: Michael J. Brownstein (NHGRI) & Shiraki
 Toshiyuki and Piero Carninci (RIKEN)
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Institute for Systems Biology
 http://www.systemsbio.org
 contact: amadan@systemsbiology.org
 Anup Madan, Jessica Fahy, Erin Helton, Mark Kettelman, Anuradha
 Madan, Stephanie Rodrigues, Amy Sanchez and Michelle Whiting

Clone distribution: MGC clone distribution information can be found
 through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
 Series: IRAK Plate: 33 Row: h Column: 14
 This clone was selected for full length sequencing because it
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REFERENCE 1 (bases 1 to 2015)			
AUTHORS Jacobs,K., Mccoy,J.M., Lavallie,E.R., Racie,L.A.C., Evans,C., Merberg,D., Treacy,M., Agostino,M.J., II,R.J.S., Spaulding,V., Wong,G.G., Clark,H.F. and Rehtel,K.			
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COMMENT GENETICS INSTITUTE INC			
OS Homo sapiens (human)			
PN JP 2002522062-A/20			
PD 23-JUL-2002			
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18-FEB-1999 US 60/120575,30-APR-1999 US 60/132020 PR			
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PI KENNETH JACOBS,JOHN M MCCOY,EDWARD R LAVALLIE,LISA A COLLINS			
PI RACIE,			
PI CHERYL EVANS,DAVID MERBERG,MAURICE TREACY,MICHAEL J AGOSTINO,			
PI ROBERT J STEININGER II,VIKKI SPAULDING,GORDON G WONG,HILARY F			
PI CLARK,			
PI KIM FECHTEL			
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QY      161 SerLysProThrAspIleSerTrpArgAspThrLeuSerGlnLysPheGlySerSerAsp 180
DB      735 TCAAAGCCCAACCGATATCTCATGGAGAGAGACACTTCTCAGAAATTTGGATCTCAGAT 794

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QY      201 LysGlyHisSerGlnSerGlnPheSerAspGlnGluIleAlaHisLeuLeuPro 220
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QY      261 GlnProGlnLeuAlaThrThrAlaProProValThrThrValThrSerGlnProThr 280
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QY      301 AlaValLeuThrThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
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QY      341 LeuSerMetSerAsnValGluSerSerThrMetAsnLysThrAlaSerTrpGluGlyArg 360
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QY      401 LeuValLeuLeuGlyArgIleLeuSerGluSerLeuArgArgLysArgTyrSerArgLeu 420
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DEFINITION
ACCESSION      BD155963
VERSION      BD155963.1 GI:27861721
KEYWORDS      JP 2002191363-A/10806.
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 2221)
Ota,T., Isogai,T., Nishikawa,T., Hayashi,K., Saito,K., Yamamoto,J.,
Ishii,S., Sugiyama,T., Wakamatsu,A., Nagai,K. and Otsuki,T.
Primer for synthesizing full-length cDNA and use thereof
Patent: JP 2002191363-A 10806 09-JUL-2002;
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OS      Homo sapiens (human)
PN      JP 2002191363-A/10806
PD      09-JUL-2002
PF      28-JUL-2000 JP 2000280990
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PI      SAITO,
PI      JUNICHI YAMAMOTO,SHIZUKO ISHII,TOMOYASU SUGIYAMA,AI WAKAMATSU,
PI      KEIICHI NAGAI,TETSUJI OTSUKI
PC      C12N15/09,C07K14/47,C07K16/18,C12N1/15,C12N1/19,C12N1/21,C12N5/ PC
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US-10-735-014-83 (1-431) x BD155963 (1-2221)

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DEFINITION Sequence 504 from Patent EP1394274.
ACCESSION COQ776818
VERSION COQ776818.1 GI:45380208
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Ohtani, N., Sugita, Y., Yamaya, M., Kubo, H., Nagai, H. and Izuwara, K.
TITLE Methods of testing for bronchial asthma or chronic obstructive pulmonary disease
JOURNAL Patent: EP 1394274-A 504 03-MAR-2004;
Genex Research, Inc. (JP)
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Pred. No.: 1.19e-101 Length: 2221
Score: 2022.00 Matches: 397
Percent Similarity: 92.11% Conservative: 0
Best Local Similarity: 92.11% Mismatches: 0
Query Match: 91.45% Indels: 34
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US-10-735-014-83 (1-431) x COQ776818 (1-2221)

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ACCESSION AX876122
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AUTHORS Ota, T., Isegai, T., Nishikawa, T., Hayashi, K., Saito, K., Yamamoto, J.,
Ishii, S., Sugiyama, T., Wakamatsu, A., Nagai, K. and Otsuki, T.
TITLE Primers for synthesising full-length cDNA and their use
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Research Association for Biotechnology (JP)
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GenCore version 5.1.6
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Scoring table:
BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:
-MODEL=frame+ p2n.model -DEV=xlp
-Q=/cgn2.1/USPTO spoal_p/US10735014/runat_26042005_113100_7403/app.query.fasta_1.583
-DB=N Geneseq 16Dec04 -QFMT=fastap -SUFFIX=ring -MINMATCH=0 -1-LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US10735014 @CGN 1.1 708 @runat_26042005_113100_7403 -NCPU=6 -ICPU=3
-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : N_Geneseq 16Dec04:.*
1: Geneseqn1980s:.*
2: Geneseqn1990s:.*
3: Geneseqn2000s:.*
4: Geneseqn2001as:.*
5: Geneseqn2001bs:.*
6: Geneseqn2002as:.*
7: Geneseqn2002bs:.*
8: Geneseqn2003as:.*
9: Geneseqn2003bs:.*
10: Geneseqn2003cs:.*
11: Geneseqn2003ds:.*
12: Geneseqn2004as:.*
13: Geneseqn2004bs:.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2211	100.0	2284	2 AAX80059	Aax80059 Human PRO
2	2211	100.0	2284	3 AAX49567	Aax49567 Human PRO
3	2211	100.0	2284	5 AAF44268	Aaf44268 Human PRO
4	2211	100.0	2284	8 ACA64519	ACA64519 Novel hum
5	2211	100.0	2284	8 ABX96832	ABx96832 Human cDN

6	2211	100.0	2284	8 ABX78486	Abx78486 DNA encod
7	2211	100.0	2284	8 ABX77120	Abx77120 cDNA enco
8	2211	100.0	2284	8 ABX80978	Abx80978 Human sec
9	2211	100.0	2284	8 ACD44487	ACd44487 cDNA enco
10	2211	100.0	2284	8 ABX75951	Abx75951 Human cDN
11	2211	100.0	2284	8 ABX89662	Abx89662 cDNA enco
12	2211	100.0	2284	8 ABX79658	Abx79658 Human sec
13	2211	100.0	2284	8 ACA93679	ACA93679 Novel hum
14	2211	100.0	2284	8 ABX81361	Abx81361 Novel hum
15	2211	100.0	2284	8 ACA93177	ACA93177 Novel hum
16	2211	100.0	2284	8 ABX17261	Abx17261 Human PRO
17	2211	100.0	2284	8 ABX34148	ABx34148 cDNA enco
18	2211	100.0	2284	9 ACA04368	ACA04368 Human PRO
19	2211	100.0	2284	9 ACA68116	ACA68116 Novel hum
20	2211	100.0	2284	9 ACA88565	ACA88565 Human sec
21	2211	100.0	2284	9 ACD82072	ACd82072 cDNA enco
22	2211	100.0	2284	9 ADA38025	Ada38025 Human cDN
23	2211	100.0	2284	9 ADA21711	Ada21711 Human cDN
24	2211	100.0	2284	9 ADA10498	Ada10498 Human cDN
25	2211	100.0	2284	9 ADA18042	Ada18042 cDNA enco
26	2211	100.0	2284	9 ADA28150	Ada28150 Human cDN
27	2211	100.0	2284	9 ADA94730	Ada94730 Human cDN
28	2211	100.0	2284	9 ADA38955	Ada38955 Human cDN
29	2211	100.0	2284	9 ADA93076	Ada93076 Human cDN
30	2211	100.0	2284	9 ACH65633	ACH65633 Human cDN
31	2211	100.0	2284	9 ADA22637	Ada22637 Human cDN
32	2211	100.0	2284	9 ACD39623	ACd39623 Human cDN
33	2211	100.0	2284	9 ADA06803	Ada06803 Human sec
34	2211	100.0	2284	9 ADA39496	Ada39496 Human cDN
35	2211	100.0	2284	9 ADB96522	ADB96522 Human PRO
36	2211	100.0	2284	10 ADC57994	Adc57994 Human PRO
37	2211	100.0	2284	10 ADC25838	Adc25838 Human cDN
38	2211	100.0	2284	10 ADC25596	Adc25596 Human PRO
39	2211	100.0	2284	10 ADC55358	Adc55358 Human PRO
40	2211	100.0	2284	10 ADC12225	Adc12225 Human cDN
41	2211	100.0	2284	10 ADC56647	Adc56647 Human PRO
42	2211	100.0	2284	10 ADC11692	Adc11692 Human cDN
43	2211	100.0	2284	10 ADC25717	Adc25717 Human cDN
44	2211	100.0	2284	10 ADC14814	Adc14814 Novel hum
45	2211	100.0	2284	10 ADD08346	Add08346 Novel hum

ALIGNMENTS

RESULT 1
AAX80059
ID AAX80059 standard; cDNA; 2284 BP.
XX
AC AAX80059;
XX
DT 12-AUG-1999 (first entry)
XX
DE Human PRO361 nucleotide sequence.
XX
KW Human; PRO protein; tumour necrosis factor family; TNF; cytokine;
secreted protein; transmembrane protein; inflammation disorder; ss.
XX
OS Homo sapiens.
XX
FN WO9928462-A2.
XX
PD 10-JUN-1999.
XX
PF 01-DEC-1998; 98WO-US025108.
XX
PR 03-DEC-1997; 97US-0067411P.
PR 11-DEC-1997; 97US-0069278P.
PR 11-DEC-1997; 97US-0069334P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069435P.
PR 16-DEC-1997; 97US-0069694P.
PR 16-DEC-1997; 97US-0069696P.
PR 16-DEC-1997; 97US-0069702P.

PR 17-DEC-1997; 97US-0069870P.
 PR 17-DEC-1997; 97US-0069873P.
 PR 18-DEC-1997; 97US-0068017P.
 PR 05-JAN-1998; 98US-0070440P.
 PR 09-FEB-1998; 98US-0074086P.
 PR 09-FEB-1998; 98US-0074092P.
 PR 25-FEB-1998; 98US-0075945P.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Wood WI, Goddard A, Gurney AL, Yuan J, Baker KP, Chen J;
 XX
 DR WPI; 1999-371118/31.
 XX
 DR P-PSDB; AAY17834.
 XX
 PT Nucleic acids encoding PRO secreted and transmembrane proteins.
 XX
 PS Claim 2; Fig 36; 123pp; English.
 XX
 CC The present invention describes nucleic acids encoding PRO secreted and
 CC transmembrane proteins used therapeutically. The PRO proteins have
 CC cytosolic, anti-inflammatory, anti-proliferative and immunosuppressive
 CC activity. The proteins and polynucleotides can be used in therapy,
 CC identification of homologues, raising antibodies and design of probes and
 CC primers. They can be used in a range of diseases related to proteins that
 CC they have homology with, e.g. a PRO protein having homology to complement
 CC proteins may be used in inflammatory responses
 XX
 SQ Sequence 2284 BP; 612 A; 576 C; 464 G; 632 T; 0 U; 0 Other;
 Alignment Scores:
 Pred. No.: 1,02e-141 Length: 2284
 Score: 2211.00 Matches: 431
 Percent Similarity: 100.00% Conservations: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 2 Gaps: 0
 US-10-735-014-83 (1-431) x AAX80059 (1-2284)
 QY 1 MetPheGlyGlyGlyGlySerLeuThrTyrThrLeuValIleCysPheLeuThr 20
 DB 226 ATGTTCTTCGGGGGAGAGGAGCTTACACTTTGGTAATAATTTGCTTCTCTGACA 285
 QY 21 LeuArgLeuSerAlaSerGlnAsnCysLeuIleCysLeuGluAspValIleAsp 40
 DB 286 CTAAAGGCTGCTCTAGTCTAGAAATTCCTCAAAAGAGTCTAGAGAGTGTGTCATTGAC 345
 QY 41 IleGlnSerLeuSerLeuGlyIleArgGlyAsnGluProValTyrThrSerThrGln 60
 DB 346 ATCCAGTCACTCTTTCTTAGGGGAATCAGAGGCATGAGCCCGTATATATCTCAACTCAA 405
 QY 61 GluAspCysIleAsnSerCysCysSerThrIleAsnIleSerGlyAspIleAlaCysAsn 80
 DB 406 GAAGACTGCAATTAATTTCTGTCTTCAACAAAAACATATCAGGGGACAAAGCATGTAAC 465
 QY 81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysTyrLeuPhePheCys 100
 DB 466 TTGATGATCTTCGACACTCGAAAAACAGCTAGACACCCCACTGCTACCTATTTTCTGT 525
 QY 101 ProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeuMetSerTyrArgIleIle 120
 DB 526 CCCAACGAGGAGGCTGTCCATTGAAACCAACGAAAGAGCTTATGAGTTACAGATTAATT 585
 QY 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer 140
 DB 586 ACAGATTTTCCATCTTTGACCAGAAATTTGCCAAGCCAAAGAGTTACCCAGGAAGATTCT 645
 QY 141 LeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAlaHisHisThrAspTyr 160
 DB 646 CTCTTACATGCCCAATTTTTCACAGCAGTCACTCCCTAGCCCATCATCATCAGATATAT 705
 QY 161 SerLysProThrAspIleSerTyrArgAspThrLeuSerGlnLysPheGlySerSerAsp 180

DB 706 TCAAAGCCCACTATCTCATGAGAGACACACTTTCTCAGAAGTTTGGATCCTCAGAT 765
 QY 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrLysGlu 200
 DB 766 CACCTGGAGAAATATTATTAGATGGAAGCAAGTCCAGCTCTTGTGTTATAAGGAA 825
 QY 201 LysGlyHisSerGlnSerGlnPheSerSerAspGlnGluIleAlaHisLeuLeuPro 220
 DB 826 AAAGGCCATTCTCAGAGTTTCCAAATTTCTCTGATCAAGAAATAGCTCATCTGTGCT 885
 QY 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrThrSerAla 240
 DB 886 GAAATGTGAGTGGCTCCAGCTACGGTGGCAGTTGCTTCTCCACATACCACTCGGCT 945
 QY 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260
 DB 946 ACTCCAAAGCCGCCACCTTCTACCCCAATGCTTCAGTGACACTTCTGGGACTTCC 1005
 QY 261 GlnProGlnLeuAlaThrThrAlaProProValThrThrValThrSerGlnProProThr 280
 DB 1006 CAGCCACAGCTGGCCACACAGCTCCACCTGTAAACCACTGTCACTTCTCAGCTTCCACG 1065
 QY 281 ThrLeuIleSerThrValPheThrArgAlaAlaAlaThrLeuGlnAlaMetAlaThrThr 300
 DB 1066 ACCTCATTTCTACAGTTTTCACGGGCTGCGGCTACACTCCCAAGCAATGGCTACAACA 1125
 QY 301 AlaValLeuThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
 DB 1126 GCAGTTCTGACTACCACTTTTCAGGCACCTTACGGACTTCGAAAGGCAGCTTAGAAACCAT 1185
 QY 321 ProPheThrGluIleSerAsnLeuThrLeuAsnThrGlyAsnValTyrAsnProThrAla 340
 DB 1186 CCGTTTACAGAAATCTCCAACTTAACTTTGAACACAGGGGAATGTATATAACCTTACTGCA 1245
 QY 341 LeuSerMetSerAsnValGluSerSerThrMetAsnLysThrAlaSerTyrGluGlyArg 360
 DB 1246 CTTTCTATGTCAATGTGGAGTCTTCCACTATGATAAAACTGCTTCTCTGGAGGTAGG 1305
 QY 361 GluAlaSerProGlySerSerSerGlnGlySerValProGluAsnGlnTyrGlyLeuPro 380
 DB 1306 GAGGCCAGTCCAGGCGAGTCTCTCCAGGCGAGTGTTCAGAAATCAGTACGGCTTCCA 1365
 QY 381 PheGluLysTrpLeuLeuIleGlySerLeuLeuPheGlyValLeuPheValIleGly 400
 DB 1366 TTTGAAAAATGGCTTCTTATCGGGTCTCTGCTCTTTGGTGTCTGTCTCTGGTATAGGC 1425
 QY 401 LeuValLeuLeuGlyArgIleLeuSerGluSerLeuArgArgLysArgTyrSerArgLeu 420
 DB 1426 CTCGTCTCTCTGGGTAGATCTTTCGGAATCACTCCGAGGAAACGTTACTCAAGACTG 1485
 QY 421 AspTyrIleLeuAsnGlyIleTyrValAspIle 431
 DB 1486 GATTATTGATCAATGGATCTATGTGGACATC 1518
 RESULT 2
 AAA49567
 ID AAA49567 standard; cDNA; 2284 BP.
 XX
 AC AAA49567;
 XX
 DT 25-SEP-2000 (first entry)
 XX
 DE Human PRO361 cDNA.
 XX
 KW PRO; membrane bound protein; secreted protein; PRO357; PRO327; PRO243;
 KW PRO715; PRO241; PRO233; PRO299; PRO344; PRO347; PRO355; PRO353;
 KW PRO361; PRO365; transmembrane polypeptide; antibody; screening;
 KW detection; inhibition; probe; primer; human; ss.
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers

FT CDS 226..1521
 FT /*tag= a
 PN /product= "PRO361 polypeptide"
 XX WO200032776-A2.
 PD 08-JUN-2000.
 XX 01-DEC-1999; 99WO-US028301.
 XX 01-DEC-1998; 98WO-US025108.
 PR 16-DEC-1998; 98US-0112850P.
 PR 22-DEC-1998; 98US-0113296P.
 XX (GETH) GENENTECH INC.
 PA Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
 XX Gerritsen ME, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL;
 PI Hillan KJ, Kijavini J, Napier MA, Roy MA, Tumas D, Wood WI;
 XX WPI; 2000-412324/35.
 DR P-PSDB; AAB01325.
 XX New human nucleic acids encoding secreted and transmembrane polypeptides,
 PT designated as PRO polypeptides, useful as pharmaceutical and diagnostic
 PT agents.
 XX Claim 2; Fig 31; 187pp; English.
 XX New human nucleic acids encoding secreted and transmembrane polypeptides
 CC which are designated as PRO polypeptides are described The membrane-bound
 CC proteins have various industrial applications, including as
 CC pharmaceutical and diagnostic agents. The membrane-bound proteins can
 CC also be employed for screening of potential peptide or small molecule
 CC inhibitors of the relevant receptor/ligand interaction. Anti-PRO
 CC antibodies are useful for the affinity purification of PRO from
 CC recombinant cell culture or natural sources
 XX SQ Sequence 2284 BP; 612 A; 576 C; 464 G; 632 T; 0 U; 0 Other;

Alignment Scores:
 Pred. No.: 1,02e-141 Length: 2284
 Score: 2211.00 Matches: 431
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 3 Gaps: 0

US-10-735-014-83 (1-431) x AAA49567 (1-2284)

QY 1 MetPheGlyGlyGlySerLeuThrThrLeuValleilleCysPheLeuThr 20
 Db 226 ATGTTCTTCGGGGAGAGGGAGCTTACACTTTGGTAATTTGCTTCTGACA 285
 QY 21 LeuArgLeuSerAlaSerGlnAsnCysLeuLysSerLeuGluAspValleilleAep 40
 Db 286 CTAAGGCTGCTGCTAGTACAGAAATGGCTCAAAAAGAGTCTAGAAGATGCTCATTCAG 345
 QY 41 IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValThrThrSerThrGln 60
 Db 346 ATCCAGTCACTCTTTCTTAAGGGAATCAGAGGCAATGAGCCCGCTATATATCTCAACTCAA 405
 QY 61 GluAspCysIleAsnSerCysCysSerThrLysAsnIleSerGlyAspLysAlaCysAsn 80
 Db 406 GAAGACTGCTATTAATTTCTGTTTCAACAAAACATATCAGGGGCAAAACATGTATAC 465
 QY 81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysThrLeuPheCys 100
 Db 466 TTGATGATCTTCGACACTCGAAAAACAGCTAGACACCACTGCTACCTATTTTCTGT 525
 QY 101 ProAsnGluAlaCysProLeuLysProAlaLysGlyLeuMetSerThrArgllelle 120
 Db 526 CCCAACGAGGAGCCTGCTCCATTGAAACCCAGCAAAAGGACTTATGAGTTACAGGATAATT 585

RESULT 3

AAF44268

ID AAF44268 standard; cDNA; 2284 BP.

XX AAF44268;

AC AAF44268;

DT 02-APR-2001 (first entry)

XX

421 AspTyrLeuIleAsnGlyIleTyrValAspIle 431

1486 GATTATTGATCAATGGGATCTATGTGGACATC 1518

QY 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer 140
 Db 586 ACAGATTTTCCATCTTTGACAGAAATTTGCCAAGCCAAAGAGTTACCCGAGGAATTTCT 645
 QY 141 LeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAlaHisHishThrAspTyr 160
 Db 646 CTCTTACATGGCCAAATTTTCAAGCAGTCACTCCCTAGCCCATCATCACAGATTAAT 705
 QY 161 SerLysProThrAspIleSerTrpArgAspThrLeuSerGlnLysPheGlySerSerAsp 180
 Db 706 TCAAGCCACCCAGATATCTCATGGAGAGACACACTTTCTCAGAGTTTGGATCCTCAGAT 765
 QY 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrLysGlu 200
 Db 766 CACCTGGAGAAACTATTTAAGATGATGAAGCAAGTGGCCAGCTCCTCTCTTATAGGAA 825
 QY 201 LysGlyHisSerGlnSerGlnPheSerAspGlnGluLeuAlaHisLeuLeuPro 220
 Db 826 AAAGGCCATTTCTCAGAGTTTCAAAATTTCTCTGATCAAGAAATAGCTCATCTGCTGCC 885
 QY 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrThrSerAla 240
 Db 886 GAAATGTGAGTGGCTCCAGCTACGGTGGCAGTTGCTTCTCCACATACACCTCGGCT 945
 QY 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260
 Db 946 ACTCCAAAGCCGCCACCTTCTACCCACCAATGCTTCACTGACACCTTCTGGGACTTC 1005
 QY 261 GlnProGlnLeuAlaThrThrAlaProProValThrThrValThrSerGlnProProThr 280
 Db 1006 CAGCCACAGCTGGCCACACACAGCTCCACCTGTAAACCACTGTCTCAGCTCCACG 1065
 QY 281 ThrLeuIleSerThrValPheThrArgAlaAlaAlaThrLeuGlnAlaMetAlaThr 300
 Db 1066 ACCCTCANTTTCTACAGTTTTTACACGGCTGGCGGTACTCTCCAGCAATGGCTACAA 1125
 QY 301 AlaValLeuThrThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
 Db 1126 GCAGTTCTGACTTACCACCTTTTCCAGGCACCTACGGAGCTCGAAAGGAGCTTAGAAAC 1185
 QY 321 ProPheThrGluIleSerAsnLeuThrLeuAsnThrGlyAsnValTyrAsnProThrAla 340
 Db 1186 CCGTTTACAGAAATCTCCAACCTTAACTTGAACACAGGGAATGTGTATAACCTTACTG 1245
 QY 341 LeuSerMetSerAsnValGluSerSerThrMetAsnLysThrAlaSerTrpGluGlyArg 360
 Db 1246 CTTTCTATGTCAATGTGAGTCTTCCACTATGAATAAACTGCTTCTCGGAGGAGTAGG 1305
 QY 361 GluAlaSerProGlySerSerSerGlnGlySerValProGluAsnGlnTyrGlyLeuPro 380
 Db 1306 GAGGCCAGTCCAGGCAGTTCTCTCCAGGCAGTGTTCAGAAAAATCAGTACGGCCTTCCA 1365
 QY 381 PheGluLysTrpLeuLeuIleGlySerLeuLeuPheGlyValLeuPheLeuValleilleGly 400
 Db 1366 TTGAAAAAATGGCTTCTTATCGGTCCTGCTCTTTGGTGTCTCTGTTCTGTGTAGAGC 1425
 QY 401 LeuValLeuLeuGlyArgIleLeuSerGluSerLeuArgArgLysArgTyrSerArgLeu 420
 Db 1426 CTCGCTCTCTGGGGTAGAATCCTTTGGAAATCACTCCGCGAGAAACGTTTACTCAAGACTG 1485

DE Human PRO361 nucleotide sequence SEQ ID NO:514.

XX Human; secreted and transmembrane protein; PRO; cytostatic; cell death;

KW cancer; chromosomal mapping; gene mapping; tissue typing;

KW diagnostic assay; ss.

XX Homo sapiens.

OS

XX WO200073454-A1.

FN 07-DEC-2000.

XX 30-MAR-2000; 2000WO-US008439.

XX 02-JUN-1999; 99WO-US012252.

PR 23-JUN-1999; 99US-0141037P.

PR 07-JUL-1999; 99US-0143048P.

PR 20-JUL-1999; 99US-0144758P.

PR 26-JUL-1999; 99US-0145698P.

PR 28-JUL-1999; 99US-0146222P.

PR 17-AUG-1999; 99US-0149396P.

PR 15-SEP-1999; 99WO-US021090.

PR 15-SEP-1999; 99WO-US021547.

PR 08-OCT-1999; 99US-0158663P.

PR 30-NOV-1999; 99WO-US028313.

PR 01-DEC-1999; 99WO-US028301.

PR 16-DEC-1999; 99WO-US030095.

PR 20-DEC-1999; 99WO-US030911.

PR 05-JAN-2000; 2000WO-US000219.

PR 06-JAN-2000; 2000WO-US000376.

PR 11-FEB-2000; 2000WO-US003565.

PR 18-FEB-2000; 2000WO-US004341.

PR 22-FEB-2000; 2000WO-US004414.

PR 24-FEB-2000; 2000WO-US004914.

PR 24-FEB-2000; 2000WO-US005004.

PR 02-MAR-2000; 2000WO-US005841.

PR 15-MAR-2000; 2000WO-US006894.

PR 20-MAR-2000; 2000WO-US007377.

XX

PA (GETH) GENENTECH INC.

XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;

PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PU;

PI Grimaldi CJ, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;

PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PW, Wood WI;

PI Zhang Z;

XX WPI; 2001-032160/04.

DR P-PSDB; AAB65299.

XX

PT PRO polynucleotides used to produce polypeptides used to target bioactive

PT molecules such as toxins, radiolabels or antibodies, to specific cells,

PT to cause targeted cell death.

XX

PS Claim 2; Fig 327; 935pp; English.

XX

CC The present invention describes human secreted and transmembrane PRO

CC proteins. The PRO proteins have cytostatic activity. The PRO proteins can

CC be used for targeted delivery of bioactive molecules, such as toxins,

CC radiolabels or antibodies, that cause cell death. PRO nucleotide

CC sequences, and their fragments, can be used as hybridisation probes, in

CC chromosomal and gene mapping, and in the generation of anti-sense RNA and

CC DNA. They may also be used to produce transgenic animals which are used

CC to develop and screen therapeutically useful reagents. The PRO nucleotide

CC and protein sequence can be used for tissue typing and in treating

CC cancer. Anti-PRO antibodies can be used in diagnostic assays. AAF44270 to

CC AAF44470 represent PCR primers and hybridisation probes used in the

CC isolation of human PRO sequences. AAF44087 to AAF44269 and AAB65154 to

CC AAB65300 represent human PRO polynucleotide and protein sequences given

CC in the exemplification of the present invention

XX

Sequence 2284 BP; 612 A; 576 C; 464 G; 632 T; 0 U; 0 Other;

XX

Alignment Scores:

Pred. No.: 1.02e-141 Length: 2284

Score: 2211.00 Matches: 431

Percent Similarity: 100.00% Conservative: 0

Best Local Similarity: 100.00% Mismatches: 0

Query Match: 100.00% Indels: 0

DB: 5 Gaps: 0

US-10-735-014-83 (1-431) x AAF44268 (1-2284)

QY 1 MetPheGlyGlyGluGlySerLeuThrTyrThrLeuValIleIleCysPheLeuThr 20

DB 226 ATGTTCTTCGGGGGAGAGGAGCTTGACTTGTGTAATAATTGCTTCCTGACA 285

QY 21 LeuArgLeuSerAlaSerGlnAsnCysLeuLysLysSerLeuGluAspValIleAsp 40

DB 286 CTAAGGCTGTCTGCTAGTCAGAAATTCCTCAAAAGAGTCTAGAAGATGTTGTCATTGAC 345

QY 41 IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValTyrThrSerThrGln 60

DB 346 ATCCAGTCATCTCTTCTTAAGGAATCAGAGGCAATGAGCCCGTATATATCTTCACTCAA 405

QY 61 GluAspCysIleAsnSerCysSerThrLysAsnIleSerGlyAspLysAlaCysAsn 80

DB 406 GAAGACTGCATTAATTTCTGCTGTTCAACAAAAACATATCAGGGGACAAAGCATGTAAC 465

QY 81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysTyrLeuPhePheCys 100

DB 466 TTGATGATCTTCGACACTCGAAAAACAGCTAGACCAACCCAACTGCTACTATTTTCTGT 525

QY 101 ProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeuMetSerTyrArgIleIle 120

DB 526 CCACACGAGGAGCCTGTCATTTGAACACGACAAAGACTTATGAGTTACAGATTAATT 585

QY 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnAspSer 140

DB 586 ACAGATTTTCCATCTTTGACCAGAAATTTGCCAAGCCAGAGTTACCCAGGAAGATTCT 645

QY 141 LeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAlaHisHisThrAspTyr 160

DB 646 CTCTTACATGCCAAATTTTCCAAAGCAGTCACCTCCCTAGCCCATCATCACAGATTAT 705

QY 161 SerLysProThrAspIleSerTyrArgAspThrLeuSerGlnLysPheGlySerSerAsp 180

DB 706 TCRAAGCCCAACCATATCTCATGGAGACACACTTTCTCAGAAGTTTGGATCCTCAGAT 765

QY 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrLysGlu 200

DB 766 CACCTGGAGAAACTATTATTAAGATGGATGAAGCAAGTGCCTCCCTTGTATTAAGGAA 825

QY 201 LysGlyHisSerGlnSerSerGlnPheSerSerAspGlnIleAlaHisLeuLeuPro 220

DB 826 AAGGCCAATTTCTCAGAGTTCCAAATTTCTCTCTGATCAAGAAATAGCTCATCTGCTCCT 885

QY 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrThrSerAla 240

DB 886 GAAATGTGATGGCTCCAGCTACGGTGGCAGTGTCTTCCACATACACCTCCGCT 945

QY 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260

DB 946 ACTCCAAAGCCGACCCCTTACCCCAATGCTTCAGTCACACCTTCTGGGACTTCC 1005

QY 261 GlnProGlnLeuAlaThrAlaProProValThrThrValThrSerGlnProProThr 280

DB 1006 CAGCCACAGCTGGCCACACAGCTCCACCTGTAACTACCTGTCACCTTCTCAGCTCCACG 1065

QY 281 ThrLeuIleSerThrValPheThrArgAlaAlaAlaThrLeuGlnAlaMetAlaThrThr 300

DB 1066 ACCCTCATTTCTACAGTTTTCACGGCTGCGCTACACTCCAGCAATGGCTACAACA 1125

QY 301 AlaValLeuThrThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320

DB 1126 GCAGTTCTGACTACCACTTTTTCAGGCACTTACGAGCTCGAAAGGAGCAGCTTAGAAACCAT 1185

QY 321 ProPheThrGluIleSerAsnLeuThrLeuAsnThrGlyAsnValTyrAsnProThrAla 340
 |||||
 Db 1186 CCGTTTACAGAAATCTCCAACTTAACCTTTGAACACAGGGAATGTGTATAACCTACTGCA 1245
 |||||
 QY 341 LeuSerMetSerAsnValGluSerSerThrMetAsnLysThrAlaSerTrpGluGlyArg 360
 |||||
 Db 1246 CTTTCTATGTCAATGTGAGTCTTCCATATGAATAAACTGCTTCCCTGGGAAGGTAGG 1305
 |||||
 QY 361 GluAlaSerProGlySerSerGlnGlySerValProGluAsnGlnTyrGlyLeuPro 380
 |||||
 Db 1306 GAGGCCAGTCCAGGCAGTCTCTCCAGGCGAGTGTCCAGAAATCAGTACGGCCTTCCA 1365
 |||||
 QY 381 PheGluLysTrpLeuLeuIleGlySerLeuLeuPheGlyValLeuPheLeuValIleGly 400
 |||||
 Db 1366 TTTGAAAAATGGCTTCTTATCGGTCCTCTTGTGTCCTCTGTCCTGCTGATAGC 1425
 |||||
 QY 401 LeuValLeuLeuGlyArgIleLeuSerGluSerLeuArgArgIleValSerArgIleu 420
 |||||
 Db 1426 CTCGTCCTCTGGTAGAATCCTTTCGGAATCACTCCGAGAAACGTTTACTCAAGACTG 1485
 |||||
 QY 421 AspTyrLeuIleAsnGlyIleTyrValAspIle 431
 |||||
 Db 1486 GATTATTGATCAATGGGATCTATGTGGACATC 1518
 |||||

RESULT 4
 ACA64519
 ID ACA64519 standard; cDNA; 2284 BP.
 XX AC ACA64519;
 XX DT 17-JUN-2003 (first entry)
 XX DE Novel human secreted and transmembrane protein PRO361 cDNA.
 XX KW Human; secreted and transmembrane protein; cytostatic; anti-HIV;
 KW virucide; hepatotropic; antinflammatory; neuroprotective; gene therapy;
 KW PRO; pharmaceutical; diagnostic; biosensor; bioeffector; malignancy;
 KW cancer; ovarian cancer; colorectal cancer; Kaposi's sarcoma; leukaemia;
 KW lymphoma; hepatitis B; multiple sclerosis; Crohn's disease;
 KW drug screening; gene; ss.
 XX OS Homo sapiens;
 XX PN US2003003531-A1.
 XX PD 02-JAN-2003.
 XX PF 19-NOV-2001; 2001US-00989734.
 XX PR 16-JUN-1997; 97US-0049787P.
 PR 17-OCT-1997; 97US-0062250P.
 PR 05-NOV-1997; 97WO-US02006P.
 PR 12-NOV-1997; 97US-0065186P.
 PR 13-NOV-1997; 97US-0065311P.
 PR 24-NOV-1997; 97US-0066770P.
 PR 25-FEB-1998; 98US-0075945P.
 PR 20-MAR-1998; 98US-0078910P.
 PR 28-APR-1998; 98US-0083222P.
 PR 07-MAY-1998; 98US-0084600P.
 PR 28-MAY-1998; 98US-0087106P.
 PR 02-JUN-1998; 98US-0087607P.
 PR 02-JUN-1998; 98US-0087609P.
 PR 02-JUN-1998; 98US-0087759P.
 PR 03-JUN-1998; 98US-0087827P.
 PR 04-JUN-1998; 98US-0088021P.
 PR 04-JUN-1998; 98US-0088025P.
 PR 04-JUN-1998; 98US-0088026P.
 PR 04-JUN-1998; 98US-0088028P.
 PR 04-JUN-1998; 98US-0088029P.
 PR 04-JUN-1998; 98US-0088030P.
 PR 04-JUN-1998; 98US-0088033P.
 PR 04-JUN-1998; 98US-0088326P.

PR 05-JUN-1998; 98US-0088167P.
 PR 05-JUN-1998; 98US-0088202P.
 PR 05-JUN-1998; 98US-0088212P.
 PR 05-JUN-1998; 98US-0088217P.
 PR 09-JUN-1998; 98US-0088655P.
 PR 10-JUN-1998; 98US-0088734P.
 PR 10-JUN-1998; 98US-0088738P.
 PR 10-JUN-1998; 98US-0088742P.
 PR 10-JUN-1998; 98US-0088810P.
 PR 10-JUN-1998; 98US-0088824P.
 PR 10-JUN-1998; 98US-0088826P.
 PR 11-JUN-1998; 98US-0088858P.
 PR 11-JUN-1998; 98US-0088861P.
 PR 11-JUN-1998; 98US-0088876P.
 PR 12-JUN-1998; 98US-0089105P.
 PR 16-JUN-1998; 98US-0089440P.
 PR 16-JUN-1998; 98US-0089512P.
 PR 16-JUN-1998; 98US-0089514P.
 PR 17-JUN-1998; 98US-0089532P.
 PR 17-JUN-1998; 98US-0089538P.
 PR 17-JUN-1998; 98US-0089598P.
 PR 17-JUN-1998; 98US-0089599P.
 PR 17-JUN-1998; 98US-0089600P.
 PR 17-JUN-1998; 98US-0089653P.
 PR 18-JUN-1998; 98US-0089801P.
 PR 18-JUN-1998; 98US-0089907P.
 PR 18-JUN-1998; 98US-0089908P.
 PR 16-SEP-1998; 98WO-US019330.
 PR 17-SEP-1998; 98WO-US019437.
 PR 07-OCT-1998; 98WO-US021141.
 PR 01-DEC-1998; 98WO-US025108.
 PR 05-JAN-1999; 99WO-US000106.
 PR 08-MAR-1999; 99WO-US005028.
 PR 02-JUN-1999; 99WO-US012252.
 PR 15-SEP-1999; 99WO-US021090.
 PR 15-SEP-1999; 99WO-US021547.
 PR 30-NOV-1999; 99WO-US028313.
 PR 01-DEC-1999; 99WO-US028301.
 PR 01-DEC-1999; 99WO-US028634.
 PR 16-DEC-1999; 99WO-US030095.
 PR 20-DEC-1999; 99WO-US030911.
 PR 05-JAN-2000; 2000WO-US000219.
 PR 06-JAN-2000; 2000WO-US000376.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 18-FEB-2000; 2000WO-US004341.
 PR 22-FEB-2000; 2000WO-US004414.
 PR 24-FEB-2000; 2000WO-US004914.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 10-MAR-2000; 2000WO-US006319.
 PR 15-MAR-2000; 2000WO-US006884.
 PR 20-MAR-2000; 2000WO-US007377.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 15-MAY-2000; 2000WO-US013358.
 PR 17-MAY-2000; 2000WO-US013705.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 30-MAY-2000; 2000WO-US014941.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 11-AUG-2000; 2000WO-US022031.
 PR 23-AUG-2000; 2000WO-US023522.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 08-NOV-2000; 2000WO-US030952.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 28-AUG-2001; 2001US-00941932.
 XX PA (GETH) GENENTECH INC.
 XX XX

PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
 PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
 PI Grimaldi JC, Gurney AL, Klijavin IJ, Napier MA, Pan J, Padoni NF;
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
 PI Zhang Z;

XX WPI; 2003-352829/33.

DR P-PSDB; ABU72590.

XX New genes and secreted and transmembrane polypeptides (e.g. PRO183 or
 PT PRO184), useful for treating or diagnosing e.g. ovarian cancer, Kaposi's
 PT sarcoma, leukemia, lymphoma, hepatitis B, multiple sclerosis or Crohn's
 PT disease.

XX Claim 1; Fig 327; 663pp; English.

XX The invention describes a new isolated nucleic acid molecule comprising
 CC the full length coding sequence of the DNA deposited with the American
 CC Type Culture Collection (e.g. ATCC Deposit No. 209621, 552-PTA, 819-PTA,
 CC 209439, 203135, etc); or a sequence with at least 80% identity to a DNA
 CC encoding a PRO polypeptide. The PRO polypeptides or polynucleotides are
 CC useful as pharmaceuticals, diagnostics, biosensors or bioreactors. These
 CC are particularly useful for detecting or treating e.g. malignancies or
 CC cancers (e.g. ovarian cancer, colorectal cancer, Kaposi's sarcoma,
 CC leukemia or lymphoma), hepatitis B, multiple sclerosis, or Crohn's
 CC disease in mammals. The PRO polypeptides are useful in drug screening,
 CC particularly as targets for therapeutic intervention in these diseases,
 CC and in the diagnostic determination of the presence of these diseases.
 CC The PRO polypeptides are also useful as molecular weight markers, or for
 CC chromosome identification. The PRO genes are useful as hybridisation
 CC probes, or for screening libraries of human cDNA, genomic DNA or mRNA.
 CC The PRO genes may also be used in gene therapy, particularly for
 CC replacing a defective gene. This sequence encodes a novel human secreted
 CC and transmembrane PRO polypeptide

XX SQ Sequence 2284 BP: 612 A; 576 C; 464 G; 632 T; 0 U; 0 Other;

Alignment Scores:

Pred. No.: 1,02e-141 Length: 2284
 Score: 2211.00 Matches: 431
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 8 Gaps: 0

US-10-735-014-83 (1-431) x ACA64519 (1-2284)

Qy 1 MetPheGlyGlyGluGlySerLeuThrThrThrLeuValIleLeuCysPheLeuThr 20
 Db 226 ATGTTCTTCGGGGGAGAGGAGCTTGACTTACACTTTGGTAATAATTTGCTCTGCACA 285
 Qy 21 LeuArgLeuSerAlaSerGlnAsnCysLeuIleGlySerLeuGluAspValIleAsp 40
 Db 286 CTAAAGGCTGCTGCTAGTCAGAAATGGCTCAAAAGAGTCTAGAGAGATGTTGTCATTGAC 345
 Qy 41 IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValThrSerThrGln 60
 Db 346 ATCCAGTCATCTCTTCTAAGGGATCAGAGGCAATGAGCCCGTATATCTCACTCAA 405
 Qy 61 GluAspCysIleAsnSerCysCysSerThrLysAsnIleSerGlyAspLysAlaCysAsn 80
 Db 406 GAAGACTGCATTAATCTTGCTGTCTCAACAAAAACATATCAGGGGCAAAAGCATGTAAC 465
 Qy 81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysTyrLeuPhePheCys 100
 Db 466 TTGATGATCTTCGACACTCGAAAAACAGCTAGACAAACCACTGCTACTATTTTCTGT 525
 Qy 101 ProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeuMetSerTyrArgIleIle 120
 Db 526 CCCAACGAGGAGGCTGCTCCATTGAAACAGCAAAAGGACTTATGAGTTACAGATTAAT 585
 Qy 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer 140

Db 586 ACAGATTTTCCATCTTTGACCCAGAAATTTGCCAAGCAAGAGTTACCCAGGAAGATTCT 645
 Qy 141 LeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAlaHisHisThrAspTyr 160
 Db 646 CTCTTACATGGCCAAATTTTTCACAGCAGTCACTCCCTAGCCCATCATCACAGATTAT 705
 Qy 161 SerLysProThrAspIleSerTrpArgAspThrLeuSerGlnLysPheGlySerSerAsp 180
 Db 706 TCAAAGCCCAACCATATCTCATGGAGAGACACACTTTCTCAGAAGTTTGGATCCTCAGAT 765
 Qy 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrLysGlu 200
 Db 766 CACCTGGAGAAACATATTAAAGATGGATGAAGCAAGTCCCGAGCTCTCTGCTTATAAGGAA 825
 Qy 201 LysGlyHisSerGlnSerSerGlnPheSerSerAspGlnGluLeuAlaHisLeuLeuPro 220
 Db 826 AAAGGCCATTTCTCAGAGTTTCAAAATTTCTCTGTATCAAGAAATAGTCTATCTGCTGCT 885
 Qy 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrThrSerAla 240
 Db 886 GAAAATGTGAGTGCCTCCAGCTACGGTGGCAGTTGCTTCTCCACATACACCTCGCT 945
 Qy 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260
 Db 946 ACTCCAAAGCCGCCACCTTCTACCCCAATGCTTCAGTGACACCTTCTGGGACTTCC 1005
 Qy 261 GlnProGlnLeuAlaThrAlaProProValThrThrValThrSerGlnProProThr 280
 Db 1006 CAGCCACAGTGGCCACACAGCTCCACCTGTACCACTGTCACTTCTCAGCCTCCACG 1065
 Qy 281 ThrLeuIleSerThrValPheThrArgAlaAlaAlaThrLeuGlnAlaMetAlaThrThr 300
 Db 1066 ACCCTCATTTCTACAGTTTTTACACGGGCTCGGCTACTCTCCAAAGCAATGGCTACAACA 1125
 Qy 301 AlaValLeuThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
 Db 1126 GCAGTTCTGACTACCACTTTTCAGGCACCTACGGACTCGAAAGGCAGCTTAGAAACCAT 1185
 Qy 321 ProPheThrGluIleSerAsnLeuThrLeuAsnThrGlyAsnValTyrAsnProThrAla 340
 Db 1186 CCGTTTACAGAAATCTCCAACTTAACCTTGNACACAGGGAATGTATATACCCCTACTGCA 1245
 Qy 341 LeuSerMetSerAsnValGluSerSerThrMetAsnLysThrAlaSerTrpGluGlyArg 360
 Db 1246 CTTTCTATGTCAAATGTGGAGTCTTCCACTATGAATAAACTGCTTCTCTGGGAAGTAGG 1305
 Qy 361 GluAlaSerProGlySerSerSerGlnGlySerValProGluAsnGlnTyrGlyLeuPro 380
 Db 1306 GAGGCCAGTCCAGCAGTCTCTCCAGGGCAGTGTCCAGAAATCAGTACGGCCTTCCA 1365
 Qy 381 PheGluLysTrpLeuLeuIleGlySerLeuLeuPheGlyValLeuPheLeuValIleGly 400
 Db 1366 TTTGAAAAATGGCTTCTTATCGGGTCCCTGCTCTTTGGTGTCTGTTCTCTGTTGATAGGC 1425
 Qy 401 LeuValLeuLeuGlyArgIleLeuSerGluSerLeuArgArgLysArgTyrSerArgLeu 420
 Db 1426 CTCGCTCTCTGGGTAGAACTCTTCGGAATCACTCCGAGGAAACGTTACTCAAGACTG 1485
 Qy 421 AspTyrIleLeuAsnGlyIleTyrValAspIle 431
 Db 1486 GATTATTGATCAATGGATCTATGTGGACATC 1518

RESULT 5

ABX96832

ID ABX96832 standard; cDNA; 2284 BP.

XX AC

XX ABX96832;

XX 15-MAY-2003 (first entry)

XX Human cDNA encoding secreted/transmembrane protein PRO361.

XX Human; ss; gene; PRO; secreted protein; transmembrane protein;

Cornelia de Lange syndrome; gene therapy; immune disorder;
 inflammatory disease; organ failure; atherosclerosis; cardiac injury;
 infertility; birth defect; premature aging; cardiac injury; AIDS; cancer;
 diabetic complication.

Homo sapiens.

US2002173463-A1.

21-NOV-2002.

31-AUG-2001; 2001US-00944944.

03-DEC-1997; 97US-0067411P.

11-DEC-1997; 97US-0069278P.

11-DEC-1997; 97US-0069334P.

11-DEC-1997; 97US-0069335P.

12-DEC-1997; 97US-0069425P.

16-DEC-1997; 97US-0069694P.

16-DEC-1997; 97US-0069696P.

16-DEC-1997; 97US-0069702P.

17-DEC-1997; 97US-0069870P.

17-DEC-1997; 97US-0069873P.

18-DEC-1997; 97US-0068017P.

05-JAN-1998; 98US-0070440P.

09-FEB-1998; 98US-0074086P.

09-FEB-1998; 98US-0074092P.

25-FEB-1998; 98US-0075945P.

16-SEP-1998; 98WO-US019330.

01-DEC-1998; 98WO-US025108.

16-DEC-1998; 98US-0112850P.

22-DEC-1998; 98US-0113296P.

02-JUN-1999; 99WO-US012252.

28-JUL-1999; 99US-0146222P.

15-SEP-1999; 99WO-US021090.

30-NOV-1999; 99WO-US028313.

30-NOV-1999; 99WO-US028409.

01-DEC-1999; 99WO-US028301.

16-DEC-1999; 99WO-US030095.

11-FEB-2000; 2000WO-US003565.

22-FEB-2000; 2000WO-US004414.

02-MAR-2000; 2000WO-US005841.

30-MAR-2000; 2000WO-US008439.

22-MAY-2000; 2000WO-US014042.

28-JUL-2000; 2000WO-US020710.

01-DEC-2000; 2000WO-US032678.

28-FEB-2001; 2001WO-US006520.

25-MAY-2001; 2001US-0086602B.

(GETH) GENENTECH INC.

Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;

Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;

Hillman KJ, Kijavini IJ, Napier MA, Roy MA, Tumas D, Wood WI;

WPI; 2003-311003/30.

P-PSDB; ABU64930.

New transmembrane polypeptides and polynucleotides useful for chromosome

identification, tissue typing, gene therapy, in chromosome and gene

mapping, or as molecular weight markers.

Claim 2; Fig 31; 172pp; English.

The invention relates to an isolated nucleic acid encoding a secreted/

transmembrane polypeptide (designated as PRO proteins). 15 PRO

polypeptides and their encoding polynucleotides are disclosed. Also

included are a vector comprising the PRO nucleic acid, a host cell

comprising the vector, a process for producing a PRO polypeptide (by

culturing the host cell under conditions for the expression of the PRO

polypeptide, and recovering the PRO polypeptide from the cell culture, an

isolated polypeptide having at least 80% amino acid sequence identity to

the PRO polypeptides, a chimaeric molecule comprising PRO fused to a

CC heterologous amino acid sequence and an antibody which specifically binds
 CC to PRO. The PRO nucleotide sequences are useful as hybridisation probes,
 CC in chromosome and gene mapping, in generating sense and antisense RNA or
 CC DNA, in generating transgenic or knock-out animals which can be used in
 CC the development and screening of therapeutically useful reagents, and in
 CC gene therapy. The polypeptides may be used as molecular weight markers
 CC for protein electrophoresis purposes. The PRO polypeptides and nucleic
 CC acids may also be used for chromosome identification, and tissue typing.
 CC PRO241 (identified as Chordin) is a candidate gene for Cornelia de Lange
 CC syndrome. Other PRO proteins are variously implicated in immune
 CC disorders, inflammatory disease, organ failure, atherosclerosis, cardiac
 CC injury, infertility, birth defects, premature aging, cardiac injury,
 CC AIDS, cancer and diabetic complications. The present sequence encodes a
 CC PRO protein

SQ Sequence 2284 BP; 612 A; 576 C; 464 G; 632 T; 0 U; 0 Other;

Alignment Scores:

Pred. No.: 1.02e-141 Length: 2284
 Score: 2211.00 Matches: 431
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 8 Gaps: 0

US-10-735-014-83 (1-431) x ABX96832 (1-2284)

QY 1 MetPheGlyGlyGlyGlySerLeuThrTyrThrLeuValIleIleCysPheLeuThr 20

Db 226 ATGTTCTTCGGGGAGAGAGGAGCTTGACTTACATTTGGTAATATTTGCTCTCGACA 285

QY 21 LeuArgLeuSerAlaSerGlnAsnCysLeuLysLysSerLeuGluAspValIleAsp 40

Db 286 CTAAGGCTGTCTGTAGTACAGAAATTCCTCAAAAAGAGTCTAGAAGATGTTCTCATTGAC 345

QY 41 IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValTyrThrSerThrGln 60

Db 346 ATCCAGTCTCTCTTCTTAAGGGAATCAGAGCAATGAGCCCGTATATATCTCAACTCAA 405

QY 61 GluAspCysIleAsnSerCysCysSerThrLysAsnIleSerGlyAspLysAlaCysAsn 80

Db 406 GAAGACTGCATTAATCTTCTGTTCAACAAAACATATACAGGGAGCAACAGATGTAAC 465

QY 81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysTyrLeuPhePheCys 100

Db 466 TTGATGATCTTCGACACTCGAAAAACAGTAGACAACCACTGCTACCTATTTTCTGT 525

QY 101 ProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeuMetSerTyrArgIleIle 120

Db 526 CCCAACGAGGAGCCTGTCCATTGAACCCAGCAAAAGGACTTATGAGTTACAGGATAAT 585

QY 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer 140

Db 586 ACAGATTTTCCATCTTTGACCAAGAAATTTGCCAAGCAAGAGTATACCCGAGGAAGATTC 645

QY 141 LeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAlaHisHisThrAspTyr 160

Db 646 CTCCTACATGCCAATTTTCAACAGCAGTCTCTCCCTAGCCCATCATCACAGATTAT 705

QY 161 SerLysProThrAspIleSerTrpArgAspThrLeuSerGlnLysPheGlySerSerAsp 180

Db 706 TCAAGCCCGCCGATATCTCATGGAGAGACACACTTTCTCAGAAAGTTGGATCCTCAGAT 765

QY 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrLysGlu 200

Db 766 CACCTGGGAGAACTATTTAAGATGATGAAGCAAGTCCCACTCTTCTTATAGGAA 825

QY 201 LysGlyHisSerGlnSerSerGlnPheSerAspGlnGluIleAlaHisLeuLeuPro 220

Db 826 AAAGCCCATTTCTCAGAGTTCACAATTTTCTGTATCAAGAAATAGCTCATCTGCTGCT 885

QY 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrThrSerAla 240

Db 286 CTAAGGCTGTCTGCTAGTCAGAAATTCCTCAAAAAGAGTCTAGAAGATGTTGTCAATGAC 345
QY 41 IIEGlnSerSerIleuSerLysGlyIleArgGlyAsnGluProValThrThrSerThrGln 60
Db 346 ATCCAGTCATCTCTTCTTAAGGGAATCAGAGGCAATGAGCCGTATATATCTCAACTCA 405
QY 61 GluAspCysIleAsnSerCysSerThrLysAsnIleSerGlyAspLysAlaCysAsn 80
Db 406 GAAGACTGCAATTAATTTCTTCTGCTTCAACAAAAACATATCAGGGGACAAAGCATGTAAC 465
QY 81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysThrLysPhePheCys 100
Db 466 TTGATGATCTTCGACACTCGAAAAACAGCTAGCAACCACTGCTACCTATTTTCTGT 525
QY 101 ProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeuMetSerThrArgIleIle 120
Db 526 CCCAACGAGGAGCCTGCTCAATGAAACCCAGCAAGGACTTATGAGTTACAGGATAT 585
QY 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer 140
Db 586 ACAGATTTTCCATCTTTGACCAAGAAATTTGCCAAGCCAAAGAGTTACCCAGGAAGATTCT 645
QY 141 LeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAlaHisHisThrAspThr 160
Db 646 CTCCTTACATGGCCAAATTTTCAAGCAGTCATCTCCCTAGCCCATCATCACACAGATTAT 705
QY 161 SerLysProThrAspIleSerThrArgAspThrLeuSerGlnLysPheGlySerSerAsp 180
Db 706 TCARAAGCCACCGATATCTATGGAGAGACACACTTTCTCAGAAGTTGGATCCTCAGAT 765
QY 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaThrLysGlu 200
Db 766 CACCTGGAGAAACTATTTAAGATGATGAAGCAAGTGCCAGCTCCTTGTATTAAGGAA 825
QY 201 LysGlyHisSerGlnSerGlnPheSerAspGlnGluIleAlaHisLeuLeuPro 220
Db 826 AAAGGCCATTTCTCAGAGTTTCAAAATTTCTCTGATCAAGAAATAGCTCATCTGCTGCT 885
QY 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrThrSerAla 240
Db 886 GAAATGTGAGTGGCTCCACGACGTCAGGTGGAGTTGCTTCTCCACATACACACTCGGCT 945
QY 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260
Db 946 ACTCCAAAGCCGCCACCTTCTACCCCAATGCTTCACTGACACACTTCTGGGACTTCC 1005
QY 261 GlnProGlnLeuAlaThrAlaProProValThrThrValThrSerGlnProProThr 280
Db 1006 CAGCCACAGCTGGCCACACAGCTCCACTGTAAACCACTGTCTCAGCTCTCCACG 1065
QY 281 ThrLeuIleSerThrValPheThrArgAlaAlaThrLeuGlnAlaMetAlaThrThr 300
Db 1066 ACCCTCATTTCTACAGTTTACAGGGCTGCGGCTTACACTCCAAGCAATGGCTCAACA 1125
QY 301 AlaValLeuThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
Db 1126 GCAGTTCTGACTACCACTTTTCCAGGCACCTACGGACTCGAAGGCGAGCTTAGAAACCAT 1185
QY 321 ProPheThrGluIleSerAsnLeuThrLeuAsnThrGlyAsnValThrAsnProThrAla 340
Db 1186 CGGTTTACAGAAATCTCAACTTAATTTGAACACAGGGAATGTGTATAACCTTACTGCA 1245
QY 341 LeuSerMetSerAsnValGluSerSerThrThrMetAsnLysThrAlaSerThrGluGluVArg 360
Db 1246 CTTTCTATGTCAATATGTGAGTCTTCCACTATGAATAAACTGCTTCTCTGGGAAGGTAGG 1305
QY 361 GluAlaSerProGlySerSerGlnGlySerValProGluAsnGlnThrGlyLeuPro 380
Db 1306 GAGGCCAGTCAGGAGTCTCTCCAGGCGAGTGTCCAGAAATCAGTACGGCTTCCA 1365
QY 381 PheGluLysTrpLeuLeuIleGlySerLeuPheGlyValLeuPheLeuValIleGly 400

Db 1366 TTTGAAAAATGGCTTCTTATCGGGTCCCTGCTCTTTGGTGTCTCTGTTCTGGTATAGGC 1425
QY 401 LeuValLeuLeuGlyArgIleLeuSerGluSerLeuArgArgLysArgTyrSerArgLeu 420
Db 1426 CTCGTCTCTCTGGTGAATCCTTTCCGAATCACTCCGCAAGAAAGTTTACTCAAGACTG 1485
QY 421 AspTyrLeuIleAsnGlyIleTyrValAspIle 431
Db 1486 GATTATTTGATCAATGGGATCTATGTGGACATC 1518
RESULT 7
ABX77120
ID ABX77120 standard; cDNA; 2284 BP.
XX
AC ABX77120;
DT
XX 04-APR-2003 (first entry)
DE cDNA encoding human PRO361 protein.
XX
KW Gene; ss; human; antiinflammatory; antiarteriosclerotic; cardiant;
anti-infertility; anti-HIV; cytostatic; antidiabetic; transmembrane;
antiinflammatory; anti-HIV; antiarteriosclerotic; cardiant; infertility;
anti-infertility; cytostatic; antidiabetic; gene therapy; birth defect;
inflammatory disease; organ failure; atherosclerosis; cardiac injury;
premature aging; AIDS; cancer; diabetic complication.
XX
OS Homo sapiens.
XX
PN US2002142958-A1.
XX
PD 03-OCT-2002.
XX
PF 30-AUG-2001; 2001US-00943762.
XX
PR 16-SEP-1998; 98WO-US019330.
PR 01-DEC-1998; 98WO-US025108.
PR 22-JUN-1999; 99WO-US012252.
PR 15-SEP-1999; 99WO-US021090.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 16-DEC-1999; 99WO-US030095.
PR 11-FEB-2000; 2000WO-US003565.
PR 22-FEB-2000; 2000WO-US004414.
PR 02-MAR-2000; 2000WO-US005841.
PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 28-JUL-2000; 2000WO-US020710.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 25-MAY-2001; 2001US-00866028.
XX
PA (GETH) GENENTECH INC.
XX
PI Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
Hillan KJ, Kljavin IJ, Napier WA, Roy MA, Tumas D, Wood WI;
XX
DR WPI; 2003-174140/17.
DR P-PSDB; ABU57251.
XX
PT New secreted and transmembrane nucleic acids and polypeptides, designated
as PRO, useful for treating inflammation, organ failure, atherosclerosis,
cardiac injury, infertility, birth defects, premature aging, AIDS, or
cancer.
XX
PS Claim 2; Fig 31; 173pp; English.
XX
CC This invention relates to a nucleotide sequence encoding an isolated
secreted and/or transmembrane protein. The nucleotide sequences of the
invention may have antiinflammatory, antiarteriosclerotic, cardiant, anti
-infertility, anti-HIV, cytostatic and antidiabetic activities and may be

used in gene therapy. The nucleic acids and polypeptides are useful for treating inflammatory diseases, organ failure, atherosclerosis, cardiac injury, infertility, birth defects, premature aging, AIDS, cancer, or diabetic complications. The nucleic acids are useful as hybridisation probes, in chromosome and gene mapping, and in generating antisense RNA or DNA. The polypeptides are useful as pharmaceuticals, diagnostics, biosensors or bioreactors. Both are useful in tissue typing. The present sequence represents a nucleic acid sequence of the invention

XX Sequence 2284 BP; 612 A; 576 C; 464 G; 632 T; 0 U; 0 Other;

Alignment Scores:

Pred. No.: 1,02e-141 Length: 2284
 Score: 2211.00 Matches: 431
 Percent Similarity: 100.00% Conservatives: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 8 Gaps: 0

US-10-735-014-83 (1-431) x ABX77120 (1-2284)

QY 1 MetPhePheGlyGlyGluGlySerLeuThrTyrThrLeuValIleIleCysPheLeuThr 20
 DB 226 ATGTTCTTCGGGGGAGAGGAGCTTGACTTTACACTTTTGTAATAATTGCTTCTCGACA 285
 QY 21 LeuArgLeuSerAlaSerGlnAsnCysLeuLysLysSerLeuGluAspValValIleAsp 40
 DB 286 CTAAGGCTGTCTGCTAGTCAGAAATGCTCAAAAGAGCTAGAGAAATGTTGTCATTGAC 345
 QY 41 IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValTyrThrSerThrGln 60
 DB 346 ATCCAGTCATCTCTTCTAAGGGAATCAGAGCAATGAGCCGCTATATCTCAACTCAA 405
 QY 61 GluAspCysIleAsnSerCysCysSerThrLysAsnIleSerGlyAspLysAlaCysAsn 80
 DB 406 GAAGACTGCATTAAATCTTGCTGTTCACAAAAACATATCAGGGGACAAAGCATGTAAC 465
 QY 81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysTyrLeuPhePheCys 100
 DB 466 TTGATGATCTCGACACTCGAANAACAGCTAGACACCCAACTGCTACCTATTTTCTGT 525
 QY 101 ProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeuMetSerTyrArgIleIle 120
 DB 526 CCCAACGAGGAAGCTGTCCATTGAACACAGCAAAAGGACTATGAGTTACAGGATAATT 585
 QY 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer 140
 DB 586 ACAGATTTTCCATCTTTGACCAGAAATTTGCCAAGCCCAAGAGTTACCCAGGAAGATTCT 645
 QY 141 LeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAlaHisHisThrAspTyr 160
 DB 646 CTCTTACATGCCCAATTTTTCACAGAGCTACTCCCTAGCCCATCATCACAGATTAT 705
 QY 161 SerLysProThrAspIleSerTrpArgAspThrLeuSerGlnLysPheGlySerSerAsp 180
 DB 706 TCAAGCCACCGGATATCTCATGGAGAGACACACTTTCTCAGAAAGTTGGATCCTCAGAT 765
 QY 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrLysGlu 200
 DB 766 CACCTGGAGAAACTATTTAAGATGATGAACCAAGTGCCTGCTTGTATTAAGGAA 825
 QY 201 LysGlyHisSerGlnSerSerGlnPheSerAspGlnGluIleAlaHisLeuLeuPro 220
 DB 826 AAAGCCCAATTTCTCAGAGTTCAAAATTTTCTCTGATCAAGAAATAGCTCATCTGCTGCT 885
 QY 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrSerAla 240
 DB 886 GAAATGTGAGTGGCTCCAGCTACGGTACGGTGGAGTTGCTTCTCCACATACCACCTCGCT 945
 QY 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260
 DB 946 ACTCAAAGCCCGCCACCTTCTACCCCACTTCTCAGTGACACCTTCTGGGAGCTTCC 1005

QY 261 GlnProGlnLeuAlaThrThrAlaProProValThrThrValThrSerGlnProProThr 280
 DB 1006 CAGCCACAGCTGGCCACCACAGCTCCACCTGTAAACCACTGCTCACTTCTCAGCCTCCACG 1065
 QY 281 ThrIleLysSerThrValPheThrArgAlaAlaAlaThrLeuGlnAlaMetAlaThrThr 300
 DB 1066 ACCTCATTTCTACAGTTTATACACGGCTGCGGTACACTCCCAAGCAATGGCTTACAACA 1125
 QY 301 AlaValLeuThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
 DB 1126 GCAGTTCTGACTACCACTTTTCAGGCACCTTACGAGCTCGAAAGCAGCTTAGAAACCAT 1185
 QY 321 ProPheThrGluIleSerAsnLeuThrLeuAsnThrGlyAsnValTyrAsnProThrAla 340
 DB 1186 CCGTTTACAGAAATCTCCAACCTTAACTTTGAAACACAGGGAATGTGTATTAACCTTACGCA 1245
 QY 341 LeuSerMetSerAsnValGluSerSerThrMetAsnLysThrAlaSerTrpGluGlyArg 360
 DB 1246 CTTTCTATGTCAAATGTGGAGTCTTCCACTATGAATAAAACTGCTTCTCGGAAGGTAGG 1305
 QY 361 GluAlaSerProGlySerSerSerGlnGlySerValProGluAsnGlnTyrGlyLeuPro 380
 DB 1306 GAGCCACAGTCCAGCAGTCTCTCCAGGCAGTGTTCCAGAAATCAGTAGCGGCTTCCA 1365
 QY 381 PheGluLysTrpLeuLeuIleGlySerLeuLeuPheGlyValLeuPheLeuValIleGly 400
 DB 1366 TTTGAAAAATGGCTTCTTATCGGGTCCCTGCTCTTTGGTGTCTTCTTCTGTTGATAGGC 1425
 QY 401 LeuValLeuGluGlyArgIleLeuSerGluSerLeuArgLysArgTyrSerArgLeu 420
 DB 1426 CTCGTCTCTCGGTAGAAATCCTTTCGGAATCACTCCGACGAAACGTTACTCAAGACTG 1485
 QY 421 AspTyrLeuIleAsnGlyIleTyrValAspIle 431
 DB 1486 GATTATTGATCAATGGGATCTATGTGGACATC 1518
 RESULT 8
 ABX80978
 ID ABX80978 standard; cDNA; 2284 BP.
 XX
 AC ABX80978;
 XX
 DT 22-APR-2003 (first entry)
 XX
 DE Human secreted/transmembrane protein cDNA, #182.
 XX
 KW Human; gene; ss; PRO; secreted; transmembrane; pharmaceutical;
 KW diagnostic; biosensor; bioreactor; tumour; therapeutic; gene therapy;
 KW tumour-associated antigenic target; TAT; ADEPT;
 KW antibody-dependent enzyme mediated prodrug therapy; cytostatic.
 XX
 OS Homo sapiens.
 XX
 FN US2003027162-A1.
 XX
 PD 06-FEB-2003.
 XX
 PF 15-NOV-2001; 2001US-00997428.
 XX
 PR 16-JUN-1997; 97US-0049787P.
 PR 17-OCT-1997; 97US-0062250P.
 PR 05-NOV-1997; 97WO-US020069.
 PR 12-NOV-1997; 97US-0065186P.
 PR 13-NOV-1997; 97US-0065311P.
 PR 24-NOV-1997; 97US-0066770P.
 PR 25-FEB-1998; 98US-0075945P.
 PR 20-MAR-1998; 98US-0078910P.
 PR 28-APR-1998; 98US-0083322P.
 PR 07-MAY-1998; 98US-0084600P.
 PR 28-MAY-1998; 98US-0087106P.
 PR 02-JUN-1998; 98US-0087607P.
 PR 02-JUN-1998; 98US-0087609P.
 PR 02-JUN-1998; 98US-0087759P.


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PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 23-JUN-2000; 2000US-0213637P.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.

Alignment Scores:
Pred. No.: 1,02e-141
Score: 2211.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 100.00%
DB: 8

US-10-735-014-83 (1-431) x ABX80978 (1-2284)

QY 1 MetPheGlyGlyGluGlySerLeuThrThrThrLeuValIleCysPheLeuThr 20
DB 226 ATGTTCTTCGGGGGAGAGGAGCTTGACTTACCTTGGTAATTTGCTTCTGACA 285

QY 21 LeuArgLeuSerAlaSerGlnAsnCysLeuLysSerLeuGluValIleAsp 40
DB 286 CTAAGGCTGTCTGCTAGTACAGAAATGCTCAAAAAGAGCTAGAAGATGTTGTCAATTGAC 345

QY 41 IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValThrThrThrGln 60
DB 346 ATCCAGTCATCTCTTCTTAAGGGAATCAGAGGCATAGCCCGTATATCTTCAACTCAA 405

QY 61 GluAspCysIleAsnSerCysCysSerThrLysAsnIleSerGlyAspLysAlaCysAsn 80
DB 406 GAAGACTGCATTAATCTTCTGTCTCAACAAAACATATCAGGGGCAAGCATGTAAC 465

QY 81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysTyrLeuPhePheCys 100
DB 466 TTGATGATCTTCGACACTCGAAAAACAGCTAGACAACCCAACTGCTACTATTTTCTGT 525

QY 101 ProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeuMetSerTyrArgIleIle 120
DB 526 CCCAACGAGGAAGCCTGTCCATTGAACCAACAAAGAGCACTTATGAGTTACAGGATAATT 585

QY 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer 140
DB 586 ACAGATTTTCCATCTTTGACCAAGAAATTTGCCAAGCCAAAGATTTACCCAGGAAGATTCT 645

QY 141 LeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAlaHisHisThrAspTyr 160
DB 646 CTCCTACATGGCCAAATTTTCAACAGCAGTCCTCCCTTAGCCCATCATCACAGATTAT 705

QY 161 SerLysProThrAspIleSerTrpArgAspThrLeuSerGlnLysPheGlySerSerAsp 180
DB 706 TCAAGCCCAACCGATATCTCATGAGAGACACACTTCTCAGAAAGTTTGGATCTCTCAGAT 765

QY 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrLysGlu 200
DB 766 CACCTGGAGAAACATTTAAGATGATGATGAGCAAGTGCACAGCTCTTCTTATAAGGAA 825

QY 201 LysGlyHisSerGlnSerSerGlnPheSerSerAspGlnGluIleAlaHisLeuLeuPro 220
DB 826 AAAGGCCATTTCTCAGAGTTCAAAATTTTCTCTGATCAAGAAATAGCTCATCTCTGCTGCT 885

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QY 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrThrSerAla 240
DB 886 GAAATGTGAGTGGCTCCCGAGCTACGGTGGCAGTTGCTTCTCCACATACACCTCGGCT 945

QY 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260
DB 946 ACTCCAAAGCCCGCCACCTTCTACCCACCAATGCTTCAGTGACACCTTCTGGGACTTCC 1005

QY 261 GlnProGlnLeuAlaThrThrAlaProProValThrThrValThrSerGlnProProThr 280
DB 1006 CAGCCACAGCTGGCCACACAGCTCCACCTGTAACTGTCACCTTCTCAGCTCTCCACG 1065

QY 281 ThrLeuIleSerThrValPheThrArgAlaAlaThrLeuGlnAlaMetAlaThrThr 300
DB 1066 ACCCTCAATTTCTACAGTTTTCACACGGGCTGCGGCTACACTCCCAAGCAATGGCTTACAACA 1125

QY 301 AlaValLeuThrThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
DB 1126 GCAGTTCTGACTACCACTTTTCAGGCACCTTCAGGACTCGAAGAGCAGCTTAGAAACCATTA 1185

QY 321 ProPheThrGluIleSerAsnLeuThrLeuAsnThrGlyAsnValTyrAsnProThrAla 340
DB 1186 CCGTTTACAGAAATCTCCAACTTAACTTTGAAACACAGGGAATGTGTATAACCTTACTGCA 1245

QY 341 LeuSerMetSerAsnValGluSerSerThrMetAsnLysThrAlaSerTTPGluGlyArg 360
DB 1246 CTTTCTATGTCAATGTGGAGTCTTCCACTATGAATAAACTGCTTCTCGGAAGGTAGG 1305

QY 361 GluAlaSerProGlySerSerSerGlnGlySerValProGluAsnGlnTyrGlyLeuPro 380
DB 1306 GAGGCCAGTCCAGGCAGTTCTCCAGGGCAGTGTCCAGAAATCAGTACGGCTTCCA 1365

QY 381 PheGluLysTrpLeuLeuIleGlySerLeuLeuPheGlyValLeuPheLeuValIleGly 400
DB 1366 TTTGAAATATGGCTTCTTATCGGGTCCCTGCTCTTTTGGTGTCTCTTCTGTTCTGATAGGC 1425

QY 401 LeuValLeuLeuGlyArgIleLeuSerGluSerLeuArgArgLysArgTyrSerArgLeu 420
DB 1426 CTGCTCTCTCGGTAGATCTTTCGAAATCACTCCGAGGAAACGTTTACTCAAGACTG 1485

QY 421 AspTyrLeuIleAsnGlyIleTyrValAspIle 431
DB 1486 GATTATTGTCAATGGGATCTATGTGACATC 1518

RESULT 9
ACD44487
ID ACD44487 standard; cDNA; 2284 BP.
XX AC ACD44487;
XX AC ACD44487;
DT 10-SEP-2003 (first entry)
XX DE cDNA encoding human PRO361 polypeptide.
XX KW Human; PRO polypeptide; secreted protein; transmembrane protein;
XX KW genetic disorder; antibacterial; immunosuppressive; transgenic;
XX KW gene therapy; gene; ss.
XX OS Homo sapiens.
XX PN US2002127576-A1.
XX PD 12-SEP-2002.
XX PF 14-NOV-2001; 2001US-00991073.
XX PR 16-JUN-1997; 97US-0049787P.
XX PR 17-OCT-1997; 97US-0062250P.
XX PR 05-NOV-1997; 97WO-US020069.
XX PR 12-NOV-1997; 97US-0065186P.
XX PR 13-NOV-1997; 97US-0065311P.
XX PR 24-NOV-1997; 97US-0066770P.

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PR 25-FEB-1998; 98US-0075945P.
 PR 20-MAR-1998; 98US-0078910P.
 PR 28-APR-1998; 98US-0083322P.
 PR 07-MAY-1998; 98US-0084600P.
 PR 28-MAY-1998; 98US-0087106P.
 PR 02-JUN-1998; 98US-0087607P.
 PR 02-JUN-1998; 98US-0087609P.
 PR 02-JUN-1998; 98US-0087759P.
 PR 03-JUN-1998; 98US-0087827P.
 PR 04-JUN-1998; 98US-0088021P.
 PR 04-JUN-1998; 98US-0088025P.
 PR 04-JUN-1998; 98US-0088026P.
 PR 04-JUN-1998; 98US-0088028P.
 PR 04-JUN-1998; 98US-0088029P.
 PR 04-JUN-1998; 98US-0088030P.
 PR 04-JUN-1998; 98US-0088033P.
 PR 04-JUN-1998; 98US-0088326P.
 PR 05-JUN-1998; 98US-0088167P.
 PR 05-JUN-1998; 98US-0088202P.
 PR 05-JUN-1998; 98US-0088212P.
 PR 05-JUN-1998; 98US-0088217P.
 PR 09-JUN-1998; 98US-0088655P.
 PR 10-JUN-1998; 98US-0088734P.
 PR 10-JUN-1998; 98US-0088738P.
 PR 10-JUN-1998; 98US-0088742P.
 PR 10-JUN-1998; 98US-0088810P.
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 PR 11-JUN-1998; 98US-0088858P.
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 PR 11-JUN-1998; 98US-0088876P.
 PR 12-JUN-1998; 98US-0089105P.
 PR 16-JUN-1998; 98US-0089440P.
 PR 16-JUN-1998; 98US-0089512P.
 PR 16-JUN-1998; 98US-0089514P.
 PR 17-JUN-1998; 98US-0089532P.
 PR 17-JUN-1998; 98US-0089538P.
 PR 17-JUN-1998; 98US-0089598P.
 PR 17-JUN-1998; 98US-0089599P.
 PR 17-JUN-1998; 98US-0089600P.
 PR 17-JUN-1998; 98US-0089653P.
 PR 18-JUN-1998; 98US-0089801P.
 PR 18-JUN-1998; 98US-0089907P.
 PR 18-JUN-1998; 98US-0089908P.
 PR 16-SEP-1998; 98WO-US019330.
 PR 17-SEP-1998; 98WO-US019437.
 PR 07-OCT-1998; 98WO-US021141.
 PR 01-DEC-1998; 98WO-US025108.
 PR 05-JAN-1999; 99WO-US000106.
 PR 08-MAR-1999; 99WO-US005028.
 PR 02-JUN-1999; 99WO-US012252.
 PR 15-SEP-1999; 99WO-US021090.
 PR 15-SEP-1999; 99WO-US021547.
 PR 30-NOV-1999; 99WO-US028313.
 PR 01-DEC-1999; 99WO-US028301.
 PR 01-DEC-1999; 99WO-US028634.
 PR 16-DEC-1999; 99WO-US030095.
 PR 20-DEC-1999; 99WO-US030911.
 PR 06-JAN-2000; 2000WO-US000219.
 PR 06-JAN-2000; 2000WO-US000376.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 18-FEB-2000; 2000WO-US004341.
 PR 22-FEB-2000; 2000WO-US004414.
 PR 24-FEB-2000; 2000WO-US004914.
 PR 24-FEB-2000; 2000WO-US005004.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 10-MAR-2000; 2000WO-US006319.
 PR 15-MAR-2000; 2000WO-US006884.
 PR 20-MAR-2000; 2000WO-US007377.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 15-MAY-2000; 2000WO-US013358.
 PR 17-MAY-2000; 2000WO-US013705.
 PR 22-MAY-2000; 2000WO-US014042.

PR 30-MAY-2000; 2000WO-US014941.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 11-AUG-2000; 2000WO-US022031.
 PR 23-AUG-2000; 2000WO-US023522.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 08-NOV-2000; 2000WO-US030952.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 29-JUL-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 28-AUG-2001; 2001US-00941992.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Ashkenazi AJ, Baker KP, Botstein D, Deenoyers L, Eaton DL,
 PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ,
 PI Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF,
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI,
 PI Zhang Z;
 XX
 DR WPI; 2003-340824/32.
 DR P-PSDB; ABO26036.
 XX
 PT Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346
 PT and PRO1375, which stimulate proliferation of stimulated T-lymphocytes
 PT and are therapeutically useful for enhancing immune responses.
 XX
 PS Claim 2; Fig 327; 661pp; English.
 XX
 CC The present invention relates to the isolation of novel human PRO
 CC polypeptides, and the polynucleotide sequences encoding them. The PRO
 CC polypeptides are secreted and transmembrane proteins. The PRO
 CC polypeptides are useful for detecting other PRO polypeptides, for linking
 CC bioactive molecules to cells expressing PRO polypeptides, for modulating
 CC biological activities of cells expressing PRO polypeptides, and for for
 CC identifying agonists or antagonists. The polynucleotide sequences
 CC encoding PRO polypeptides are useful as hybridisation probes, in
 CC chromosome and gene mapping, in the generation of antisense RNA and DNA,
 CC in the preparation of PRO polypeptides, for generating transgenic animals
 CC or knockout animals, to construct hybridisation probes for mapping the
 CC gene which encodes the PRO polypeptide, and for the genetic analysis of
 CC individuals with genetic disorders, in gene therapy, for chromosome
 CC identification, as chromosome markers, and for generating probes for PCR,
 CC Northern analysis, Southern analysis and Western analysis. The present
 CC sequence encodes a human PRO polypeptide of the invention. Note: The
 CC sequence data for this patent was obtained in electronic format directly
 CC from the USPTO web site at seqdata.uspto.gov/psipdbEntry.html
 XX
 SQ Sequence 2284 BP; 612 A; 576 C; 464 G; 632 T; 0 U; 0 Other;

Alignment Scores:
 Pred. NO.: 1.02e-141 Length: 2284
 Score: 2211.00 Matches: 431
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 8 Gaps: 0

US-10-735-014-83 (1-431) x ACD44487 (1-2284)
 QY 1 MetPhePheGlyGlyGlySerLeuThrTyrThrLeuValIleCysPheLeuThr 20
 pb 226 ATGTTCTTCGGGGGAGAGGGAGCTTGACTTTGCTAATTAATTTGCTCTTGACA 285
 QY 21 LeuArgLeuSerAlaSerGlnAsnCysLeuLysLysSerLeuGluAspValValIleAsp 40
 Db 286 CTAGGCTGTCTGTAGTACAGATTGCTCTCAAAAGAGCTAGAGAGTGTCTCATTCGAC 345
 QY 41 IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValTyrThrSerThrGln 60

Db 346 ATCCAGTCATCTCTTCTTAAGGAATCAGAGCAATGAGCCGCTATATACCTCAACTCAA 405
Qy 61 GluAspCysIleAsnSerCysCysSerThrLysAsnIleSerGlyAspLysAlaCysAsn 80
Db 406 GAAGACTGCATTAATTTCTTGTCTTCAACAAAAACATATCAGGGGACAAAGCATGTAAC 465
Qy 81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysTyrLeuPhePheCys 100
Db 466 TTGATGATCTTCGACACTCGAANAACAGCTAGACACCCAACTGCTACTATTTTCTGT 525
Qy 101 ProAsnGluAlaCysProLeuLysProAlaLysGlyLeuMetSerTyrArgIleIle 120
Db 526 CCCAACGAGGAGCCGTCTTCAATGAACCCAGAAAGGACTTATGAGTTACAGGATAAT 585
Qy 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer 140
Db 586 ACAGATTTTCCATCTTTCACCAAGAAATTTGCCAAGCCAGAGTTTACCCCAAGAGATTCT 645
Qy 141 LeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAlaHisHisThrAspTyr 160
Db 646 CTCTTACATGGCCAAATTTTCAACAGCAGTCACTCCCTAGCCCATCATCACAGATTAT 705
Qy 161 SerLysProThrAspIleSerTyrArgAspThrLeuSerGlnLysPheGlySerSerAsp 180
Db 706 TCAAGCCACCGCATATCTCATGAGAGACACACTTTCTCAGAAAGTTTGGATCCTCAGAT 765
Qy 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrLysGlu 200
Db 766 CACCTGGAGAACTATTTAAGATGATGAAGCAAGTGCAGCTCCTTGTCTTATTAAGGAA 825
Qy 201 LysGlyHisSerGlnSerSerGlnPheSerSerAspGlnGluIleAlaHisLeuLeuPro 220
Db 826 AAAGCCCATTTCTCAGAGTTTCAATTTTCTCTGATCAAGAAATAGCTCATCTGCTGCT 885
Qy 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrSerAla 240
Db 886 GAAATGTGAGTGCGCTCCAGTACGGTGCGAGTTGCTTCTCCACATACCACCTCGGCT 945
Qy 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260
Db 946 ACTCAAAGCCGCGCCCTTCTACCCACCAATGCTTCAGTGACACCTTCTGGGACTTCC 1005
Qy 261 GlnProGlnLeuAlaThrAlaProProValThrThrValThrSerGlnProProThr 280
Db 1006 CAGCCACAGCTGGCCACACAGCTCCACTGTACCACTGTCACTTCTCAGCTCCCAAG 1065
Qy 281 ThrLeuIleSerThrValPheThrArgAlaAlaThrLeuGlnAlaMetAlaThrThr 300
Db 1066 ACCCTCAATTTCTACAGTTTTTACACGGGCTCGCGCTACACTCCAAGCAATGGCTACAACA 1125
Qy 301 AlaValLeuThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
Db 1126 CGAGTTCTGACTACCACTTTTCAGGCCTACGAGCTCGAAAGGAGCTTAGAAACCATTA 1185
Qy 321 ProPheThrGluIleSerAsnLeuThrLeuAsnThrGlyAsnValTyrAsnProThrAla 340
Db 1186 CCGTTTACAGAAATCTCAACTTAACTTTGACACAGGAATGTGTATACCCCTACTGCA 1245
Qy 341 LeuSerMetSerAsnValGluSerSerThrMetAsnLysThrAlaSerTrpGluGlyArg 360
Db 1246 CTTTCTATGTCAATGTGAGTCTTCCACTATGAATAAACTGCTTCTCGGAAGGTAGG 1305
Qy 361 GluAlaSerProGlySerSerSerGlnGlySerValProGluAsnGlnTyrGlyLeuPro 380
Db 1306 GAGCCAGTCCAGGAGTTCTTCCAGGGCAGTGTTCAGAAATCATGACGGCTTCCA 1365
Qy 381 PheGluLysTrpLeuLeuIleGlySerLeuLeuPheGlyValLeuLeuValIleGly 400
Db 1366 TTTGAAAAATGGCTTCTTATCGGTGCTCTCTTTGTGTGCTGCTTCTGCTGATAGGC 1425
Qy 401 LeuValLeuLeuGlyArgIleLeuSerGluSerLeuArgLysArgTyrSerArgLeu 420
Db 1426 CTCGTCTCTCTGGGTAGAAATCCTTTCCGAATCACTCCGAGAAACGTTACTCAAGACTG 1485

Qy 421 AspTyrLeuIleAsnGlyIleTyrValAspIle 431
Db 1486 GATTATTGATCAATGGGATCTATGTGGACATC 1518
RESULT 10
ABX75951
ID ABX75951 standard; cDNA; 2284 BP.
XX
AC ABX75951;
DT 31-MAR-2003 (first entry)
XX Human cDNA encoding secreted/transmembrane protein, PRO361.
XX Human; ss; gene; PRO; antiinflammatory; antiarteriosclerotic; cardiac;
KW gynecological; anti-HIV; cytostatic; antidiabetic; inflammatory disease;
KW organ failure; atherosclerosis; cardiac injury; infertility;
KW birth defect; premature aging; AIDS; acquired immunodeficiency syndrome;
KW cancer; diabetic complication.
XX Homo sapiens.
OS
XX
PN US2002132981-A1.
XX
PD 19-SEP-2002.
XX
PF 30-AUG-2001; 2001US-00944396.
XX
PR 03-DEC-1997; 97US-0067411P.
PR 11-DEC-1997; 97US-0069278P.
PR 11-DEC-1997; 97US-0069334P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 16-DEC-1997; 97US-0069694P.
PR 16-DEC-1997; 97US-0069696P.
PR 16-DEC-1997; 97US-0069702P.
PR 17-DEC-1997; 97US-0069870P.
PR 17-DEC-1997; 97US-0069873P.
PR 18-DEC-1997; 97US-0068017P.
PR 05-JAN-1998; 98US-0070440P.
PR 09-FEB-1998; 98US-0074086P.
PR 25-FEB-1998; 98US-0075945P.
PR 16-SEP-1998; 98WO-US019330.
PR 01-DEC-1998; 98WO-US025108.
PR 16-DEC-1998; 98US-0112850P.
PR 22-DEC-1998; 98US-0113296P.
PR 02-JUN-1999; 99WO-US012252.
PR 28-JUL-1999; 99US-0146222P.
PR 15-SEP-1999; 99WO-US021090.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 16-DEC-1999; 99WO-US030095.
PR 11-FEB-2000; 2000WO-US003565.
PR 22-FEB-2000; 2000WO-US004414.
PR 02-MAR-2000; 2000WO-US005841.
PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 28-JUL-2000; 2000WO-US020710.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 25-MAY-2001; 2001US-00866028.
XX
PA (GETH) GENENTECH INC.
XX Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
PI Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WI;
XX WPI; 2003-147446/14.
DR P-PSDB; ABUS6315.
DR

XX New isolated PRO polypeptide and encoding nucleic acids, useful for the
 PT diagnosis and treatment of disorders such as inflammatory disease,
 PT atherosclerosis, cardiac injury, infertility, AIDS, cancer and diabetic
 PT complications.

XX Claim 2; Fig 31; 171pp; English.

XX The invention relates to an isolated PRO polypeptide having at least 80%
 CC amino acid sequence identity to and scoring at least 80% positives when
 CC compared to any of 15 fully defined sequences of 235-954 amino acids,
 CC given in the specification. Also included are: (1) an isolated PRO
 CC nucleic acid having at least 80% nucleic acid sequence identity to a
 CC nucleotide sequence that encodes PRO or its extracellular domain, and
 CC comprising any of 15 fully defined nucleotide sequences of 957-3441 bp,
 CC given in the specification and deposited under ATCC accession number
 CC 209526, 209508, 209524, 209528, 209530, 209523, 209492, 209532, 209531,
 CC 209529, 209527, 209570, 209618, 209621 and 209619; (2) a vector
 CC comprising the PRO nucleic acid; (3) a host cell comprising the vector;
 CC (4) producing PRO polypeptides, comprising culturing the cell for
 CC expression of the PRO polypeptide and recovering the PRO polypeptide from
 CC the cell culture; (5) a chimeric molecule comprising PRO fused to a
 CC heterologous amino acid sequence; and (6) an anti-PRP antibody. The
 CC methods and compositions are useful for the diagnosis and treatment of
 CC disorders such as inflammatory disease, organ failure, atherosclerosis,
 CC cardiac injury, infertility, birth defects, premature aging, AIDS
 CC (acquired immunodeficiency syndrome), cancer, diabetic complications and
 CC mutations in general. The present sequence is a cDNA encoding a PRO
 CC polypeptide

XX SQ Sequence 2284 BP; 612 A; 576 C; 464 G; 632 T; 0 U; 0 Other;

Alignment Scores:

Pred. No.: 1-02e-141 Length: 2284
 Score: 2211.00 Matches: 431
 Percent Similarity: 100.00% Conservatives: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 8 Gaps: 0

US-10-735-014-83 (1-431) x ABX75951 (1-2284)

QY 1 MetPheGlyGlyGlySerLeuThrThrLeuValleileCysPheLeuThr 20
 Db 226 ATGTTCTTCGGGGAGAGGGAGCTTGACTTACACTTTGGTAATTTGCTCTCTGACA 285
 QY 21 LeuArgLeuSerAlaSerGlnSerCysLeuLysLysSerLeuGluAspValleileasp 40
 Db 286 CTAAGGCTCTGCTAGTACAGAAATTCCTCAAAAAGAGTCTAGAAGATGTTGCTATTGAC 345
 QY 41 IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValThrThrSerThrGln 60
 Db 346 ATCCAGTCATCTTCTTAAAGGAATCAGAGGAATGAGCCCGTATATATCTCAACTCAA 405
 QY 61 GluAspCysIleAsnSerCysCysSerThrLysAsnIleSerGlyAspLysAlaCysAsn 80
 Db 406 GAAGACTGCTAATTAATCTTCTGCTTCAACAAAAACATATCAGGGGACAAAGCATGTAA 465
 QY 81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysTyrLeuPhePheCys 100
 Db 466 TTGATGATCTTCGACACTCGAAAAACAGCTAGACAAACCACTGCTACCTATTTTCTGT 525
 QY 101 ProAsnGluAlaCysProLeuLysProAlaLysGlyLeuMetSerThrArgIlelle 120
 Db 526 CCCAACGAGGAGCCCTGCTCCATTTGAACACAGAAAAAGGACTTATGAGTTACAGGTAAT 585
 QY 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer 140
 Db 586 ACAGATTTTCCATCTTTGACCAAGAAATTTGCCAAGCAGAGATTACCCAGGAGAAATCT 645
 QY 141 LeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAlaHisHisThrAspTyr 160
 Db 646 CTCTTACATGGCCAAATTTTCAACAGCAGTCACTCCCTAGGCCATCATCACACAGATTAT 705

QY 161 SerLysProThrAspIleSerTrpArgAspThrLeuSerGlnLysPheGlySerSerAsp 180
 Db 706 TCAAAAGCCACCGCATATCTCTGAGAGACACACATTTCTCAGAGTTTGGATCTCAGAT 765
 QY 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrLysGlu 200
 Db 766 CACCTGGAGAACTATTAAAGATGGATGAAGCACTGCCACTCTTCTGCTTATAGGAA 825
 QY 201 LysGlyHisSerGlnSerSerGlnPheSerAspGlnGlnLeuAlaHisLeuLeuPro 220
 Db 826 AAAGGCCATTTCTCAGAGTTTCAATTTTCTTGTATCAGAAATAGCTCATCTGCTGCT 885
 QY 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrThrSerAla 240
 Db 886 GAAATATGTAGTGGCTCCAGCTACGGTGGCAGTTGCTTCTCCACATACACACCTCGGCT 945
 QY 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260
 Db 946 ACTCCAAAGCCGCCACCTTTCTACCCCAATGCTTTCAGTGACACCTTCTGGGACTTCC 1005
 QY 261 GlnProGlnLeuAlaThrThrAlaProProValThrThrValThrSerGlnProProThr 280
 Db 1006 CAGCCACAGCTGGCCACACAGCTCCACTGTACACCTGTCTCTCAGCTCTCCACG 1065
 QY 281 ThrLeuIleSerThrValPheThrArgAlaAlaAlaThrLeuGlnAlaMetAlaThrThr 300
 Db 1066 ACCCTCATTTCTACAGATTTTACACGGGCTGGGCTACACTCCAGCAATGCTCAACA 1125
 QY 301 AlaValLeuThrThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
 Db 1126 GCAGTTCTGACTTACCACCTTTTTCAGGCACCTACGGACTCGAAAGGCAGCTTAGAAAC 1185
 QY 321 ProPheThrGluIleSerAsnLeuThrLeuLeuThrGlyAsnValTyrAsnProThrAla 340
 Db 1186 CGTTTACAGAAATCTCCAACTTAACACAGGGAATGTGTATTAACCTTACTGCA 1245
 QY 341 LeuSerMetSerAsnValGluSerSerThrMetAsnLysThrAlaSerTrpGluGlyArg 360
 Db 1246 CTTTCTATGTCAAAATGTGGAGTCTTCCACTATGAATAAACTGCTTCTCTGGGAAGTAG 1305
 QY 361 GluAlaSerProGlySerSerSerGlnGlySerValProGluAsnGlnTyrGlyLeuPro 380
 Db 1306 GAGGCAGTCCAGGCAGTTCCTCCAGGCAGTGTTCAGAAATCAGTACGCGCTTCA 1365
 QY 381 PheGluLysTrpLeuLeuIleGlySerLeuLeuPheGlyValLeuPheLeuValleileGly 400
 Db 1366 TTTGAAAAATGGCTTCTTATCGGGTCTTCTTGTGTCTTGTGTCTTCTTGTGTATGAGC 1425
 QY 401 LeuValLeuLeuGlyIleValGlyLeuSerGluSerLeuArgArgLysArgTyrSerArgLeu 420
 Db 1426 CTCGTCCTCTGGGTAGATCTTTCGGAATCACTCCGCAAGAAACGTTACTCAAGACTG 1485
 QY 421 AspTyrLeuIleAsnGlyIleTyrValAspIle 431
 Db 1486 GATTATTGATCAATGGGATCTATGTGACATC 1518
 RESULT 11
 ABX89662
 ID ABX89662 standard; cDNA; 2284 BP.
 XX
 AC ABX89662;
 XX
 DT 28-APR-2003 (first entry)
 XX
 DE cDNA encoding novel secreted and transmembrane protein PRO361.
 KW Secreted and transmembrane polypeptide; PRO; tissue typing; gene therapy;
 KW transgenic; knockout animal; inflammatory disease; organ failure;
 KW atherosclerosis; cardiac injury; infertility; birth defect;
 KW premature aging; acquired immunodeficiency syndrome; AIDS; cancer;
 KW diabetic complication; immune system disorder; proteoglycan release;
 KW sports-related joint problem; human; articular cartilage defect;

osteoarthritis; rheumatoid arthritis;
 vascular endothelial cell growth factor stimulated proliferation;
 endothelial cell growth; VEGF stimulated proliferation; gene; ss.

Homo sapiens.

US2002168715-A1.

14-NOV-2002.

31-AUG-2001; 2001US-0094896.

03-DEC-1997; 97US-0067411P.

11-DEC-1997; 97US-0069278P.

11-DEC-1997; 97US-0069334P.

11-DEC-1997; 97US-0069335P.

12-DEC-1997; 97US-0069425P.

16-DEC-1997; 97US-0069694P.

16-DEC-1997; 97US-0069696P.

16-DEC-1997; 97US-0069702P.

17-DEC-1997; 97US-0069870P.

17-DEC-1997; 97US-0069873P.

18-DEC-1997; 97US-0068017P.

05-JAN-1998; 98US-0070440P.

09-FEB-1998; 98US-0074086P.

09-FEB-1998; 98US-0074092P.

25-FEB-1998; 98US-0075945P.

16-SEP-1998; 98WO-US019330.

01-DEC-1998; 98WO-US025108.

16-DEC-1998; 98US-00216021.

16-DEC-1998; 98US-0112850P.

22-DEC-1998; 98US-00218517.

22-DEC-1998; 98US-0113296P.

03-MAR-1999; 99US-00254311.

22-JUN-1999; 99WO-US012252.

28-JUL-1999; 99US-0146222P.

15-SEP-1999; 99WO-US021090.

30-NOV-1999; 99WO-US028313.

30-NOV-1999; 99WO-US028409.

01-DEC-1999; 99WO-US028301.

16-DEC-1999; 99WO-US030095.

11-FEB-2000; 2000WO-US003565.

22-FEB-2000; 2000WO-US004414.

02-MAR-2000; 2000WO-US005841.

30-MAR-2000; 2000WO-US008439.

22-MAY-2000; 2000WO-US018442.

28-JUL-2000; 2000WO-US020710.

01-DEC-2000; 2000WO-US032678.

28-FEB-2001; 2001WO-US006520.

25-MAY-2001; 2001US-00866028.

(GETH) GENENTECH INC.

Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
 Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
 Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WT;

WPI; 2003-275322/27.

P-PSDB; ABU60355.

Novel isolated PRO polypeptides e.g. PRO243, PRO299, PRO323, PRO327,
 PRO344, and polynucleotides useful in the treatment of human disorders
 related to immune system, and in gene therapy.

Claim 2; Fig 31; 173pp; English.

The invention describes an isolated secreted and transmembrane
 polypeptide, designated as PRO polypeptide (I) having at least 80 %
 identity to, a 379, 954, 737, 433, 422, 300, 243, 455, 694, 440, 598,
 250, 281, 431 or 235 amino acid sequence (SI), given in the
 specification, SI lacking its associated signal peptide or extracellular
 domain of SI with or without its associated signal peptide. (I) and the
 polynucleotide (II) encoding it are useful in tissue typing and gene

CC therapy. (II) is also useful for generating transgenic animals or
 CC knockout animals for the development and screening of therapeutically
 CC useful reagents. PRO233 polypeptide is useful for treating inflammatory
 CC disease, organ failure, atherosclerosis, cardiac injury, infertility,
 CC birth defects, premature aging, acquired immunodeficiency syndrome
 CC (AIDS), cancer and diabetic complications. The other PRO polypeptides
 CC including PRO243, PRO299, PRO323, PRO327, PRO344, PRO354, PRO355,
 CC PRO715, PRO353, PRO361 and PRO365 are useful for treating human disorders
 CC involving the immune system. PRO241 is useful for stimulating release of
 CC proteoglycans from cartilage, and thus for treating sports-related joint
 CC problems, articular cartilage defects, osteoarthritis and rheumatoid
 CC arthritis. (I) is also useful for inhibiting vascular endothelial cell
 CC growth factor (VEGF) stimulated proliferation of endothelial cell growth.
 CC This sequence encodes a novel human secreted and transmembrane protein.

XX Sequence 2284 BP; 612 A; 576 C; 464 G; 632 T; 0 U; 0 Other;

Alignment Scores:

Pred. No.:	1.02e-141	Length:	2284
Score:	2211.00	Matches:	431
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	8	Gaps:	0

US-10-735-014-83 (1-431) x ABX89662 (1-2284)

Qy 1 MetPheGlyGlyGluGlySerLeuThyThyThyLeuVallelleCysPheLeuThr 20

Db 226 ATGTTCTTCGGGGGAGAGGAGCTTGACTTACACTTGGTAATAAATTCCTTCCTGACA 285

Qy 21 LeuArgLeuSerAlaSerGlnAenCysLeuLysSerLeuGluAspValleAsp 40

Db 286 CTAAGGCTGTCTGCTAGTCAGAAATTCCTCAAAAGAGCTCTAGAGATGTTGTCATGAC 345

Qy 41 IleGlnSerSerLeuSerLysGlylleArgGlyAsnGluProValTyThrSerThrGln 60

Db 346 ATCCAGTCATCTCTTCTAAGGGAATCAGAGCAATGAGCCCGTATATCTTCACTCAA 405

Qy 61 GluAspCysAlaAsnSerCysSerThrLysAsnIleSerGlyAspLysAlaCysAsn 80

Db 406 GAAGACTGCATTAATTTCTTGCTTCAACAAAACATATATCAGGGGACAAAGCATGTAAC 465

Qy 81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysTyThrLeuPheCys 100

Db 466 TTGATGATCTTCGACTCGAAAAACAGCTAGCAACCCACTGCTACCTATTATTTCTGT 525

Qy 101 ProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeuMetSerTyArgIleIle 120

Db 526 CCCAACGAGGAGCCCTGTCATTGAAACCCAGCAAAAGGACTTATGAGTTACAGGATAATT 595

Qy 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer 140

Db 586 ACAGATTTTCCATCTTTTGACCAAGAAATTTGCCAAGCCCAAGAGTTACCCCAAGAGATTCT 645

Qy 141 LeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAlaHisHisThrAspTy 160

Db 646 CTCTTACATGGCCAAATTTTCAAGCAGTCATCTCCCTAGCCCATCATCACAGATTAT 705

Qy 161 SerLysProThrAspIleSerTyrArgAspThrLeuSerGlnLysPheGlySerSerAsp 180

Db 706 TCAAGCCCAACCGATATCTCATCGAGAGACACACTTTCTCAGAAAGTTTGGATCCTCAGAT 765

Qy 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyLysGlu 200

Db 766 CACCTGGAGAAACTATTTAAGATGGATGAAGCAAGTGCCCAAGCTCTCTGTTAAGGAA 825

Qy 201 LysGlyHisSerGlnSerGlnPheSerSerAspGlnGluIleAlaHisLeuLeuPro 220

Db 826 AAGGCCATCTTCAGAGTTTCAAAATTTCTCTGATCAAGAAATAGCTCATCTGCTGCT 885

Qy 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrThrSerAla 240

Db 886 GAAATGTGAGTCCGCTCCAGCTACGGTGGCAGTTGCTTCTCCACATACCACCTCGGCT 945
Qy 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260
Db 946 ACTCCAAAGCCGCCACCTTCTACCCACCAATGCTTCAGTGACACCTTCTGGGACTTCC 1005
Qy 261 GlnProGlnLeuAlaThrAlaProProValThrThrValThrSerGlnProProThr 280
Db 1006 CAGCCACAGTGCCACCACTCCACCTGTAAACCACTGTCACTTCTCAGGCTCCACG 1065
Qy 281 ThrLeuIleSerThrValPheThrArgAlaAlaAlaThrLeuGlnAlaMetAlaThrThr 300
Db 1066 ACCCTCATTTCTACAGTTTACACGGCTCGGCTTACACTCCAGCAATGGCTACACA 1125
Qy 301 AlaValLeuThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
Db 1126 GCAGTTCTGACTACCACTTTCAGGCACCTACGGACTCGAAAGGCAGCTTAGAAACCA 1185
Qy 321 ProPheThrGluIleSerAsnLeuThrLeuAsnThrGlyAsnValThrAsnProThrAla 340
Db 1186 CCGTTTACAGAAATCTCCAACTTAACCTTTGAACACACAGGGAATGTGTATAACCTACTGCA 1245
Qy 341 LeuSerMetSerAsnValGluSerSerThrMetAsnLysThrAlaSerTrpGluGlyArg 360
Db 1246 CTTTCTATGTCAAAATGTGAGTCTTCCACTATGATAAATAAACTCTTCTGGGAGTAGG 1305
Qy 361 GluAlaSerProGlySerSerGlnGlySerValProGluAsnGlnTyrGlyLeuPro 380
Db 1306 GAGGCCAGTCCAGGCAGTCTCTCCAGGGCAGTGTCCAGAAATCAGTACGGCCTTCCA 1365
Qy 381 PheGluLysTrpLeuLeuIleGlySerLeuLeuPheGlyValLeuPheLeuValIleGly 400
Db 1366 TTTGAAATAATGGCTTCTATCGGTCCTCTTGTGGTGTCTGTCTCTGGTGTATAGG 1425
Qy 401 LeuValLeuLeuGlyArgIleLeuSerGluSerLeuArgArgLysArgTyrSerArgLeu 420
Db 1426 CTGCTCTCTGGTGAATCCTTTCCGAATCACTCCGAGGAACGTTACTCAAGACTG 1485
Qy 421 AspTyrLeuIleAsnGlyIleTyrValAspIle 431
Db 1486 GATTATTGATCAATGGGATCTATGTGGACATC 1518
RESULT 12
ABX79658
ID ABX79658 standard; cDNA; 2284 BP.
XX
AC ABX79658;
XX
DT 17-APR-2003 (first entry)
XX
DE Human secreted/transmembrane protein cDNA, #182.
XX
KW Human; gene; ss; PRO; secreted; transmembrane; signal peptide;
KW pharmaceutical; diagnostic; biosensor; bioreactor; tumour; therapeutic;
KW colon cancer; lung cancer; breast cancer; cancer; gene therapy.
XX
OS Homo sapiens.
XX
PN US2002142961-A1.
XX
PD 03-OCT-2002.
XX
PF 19-NOV-2001; 2001US-00989721.
XX
PR 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US020069.
PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.

07-MAY-1998; 98US-0084600P.
28-MAY-1998; 98US-0087106P.
02-JUN-1998; 98US-0087607P.
02-JUN-1998; 98US-0087609P.
02-JUN-1998; 98US-0087759P.
03-JUN-1998; 98US-0087827P.
04-JUN-1998; 98US-0088021P.
04-JUN-1998; 98US-0088025P.
04-JUN-1998; 98US-0088026P.
04-JUN-1998; 98US-0088028P.
04-JUN-1998; 98US-0088029P.
04-JUN-1998; 98US-0088030P.
04-JUN-1998; 98US-0088033P.
04-JUN-1998; 98US-0088326P.
05-JUN-1998; 98US-0088167P.
05-JUN-1998; 98US-0088202P.
05-JUN-1998; 98US-0088212P.
05-JUN-1998; 98US-0088217P.
09-JUN-1998; 98US-0088655P.
10-JUN-1998; 98US-0088734P.
10-JUN-1998; 98US-0088738P.
10-JUN-1998; 98US-0088742P.
10-JUN-1998; 98US-0088810P.
10-JUN-1998; 98US-0088824P.
10-JUN-1998; 98US-0088826P.
11-JUN-1998; 98US-0088858P.
11-JUN-1998; 98US-0088861P.
11-JUN-1998; 98US-0088876P.
12-JUN-1998; 98US-0089105P.
16-JUN-1998; 98US-0089440P.
16-JUN-1998; 98US-0089512P.
16-JUN-1998; 98US-0089514P.
17-JUN-1998; 98US-0089532P.
17-JUN-1998; 98US-0089538P.
17-JUN-1998; 98US-0089598P.
17-JUN-1998; 98US-0089599P.
17-JUN-1998; 98US-0089600P.
17-JUN-1998; 98US-0089653P.
18-JUN-1998; 98US-0089801P.
18-JUN-1998; 98US-0089907P.
18-JUN-1998; 98US-0089908P.
16-SEP-1998; 98WO-US019330.
17-SEP-1998; 98WO-US019437.
07-OCT-1998; 98WO-US021141.
01-DEC-1998; 98WO-US025108.
05-JAN-1999; 98WO-US000106.
08-MAR-1999; 98WO-US005028.
02-JUN-1999; 98WO-US012252.
15-SEP-1999; 98WO-US021090.
15-SEP-1999; 98WO-US021547.
30-NOV-1999; 98WO-US028313.
01-DEC-1999; 98WO-US028301.
01-DEC-1999; 98WO-US028634.
16-DEC-1999; 98WO-US030095.
20-DEC-1999; 98WO-US030911.
05-JAN-2000; 2000WO-US000219.
06-JAN-2000; 2000WO-US000376.
11-FEB-2000; 2000WO-US003565.
18-FEB-2000; 2000WO-US004341.
22-FEB-2000; 2000WO-US004414.
24-FEB-2000; 2000WO-US004914.
24-FEB-2000; 2000WO-US005004.
02-MAR-2000; 2000WO-US005841.
10-MAR-2000; 2000WO-US006319.
15-MAR-2000; 2000WO-US006884.
20-MAR-2000; 2000WO-US007377.
30-MAR-2000; 2000WO-US008439.
15-MAY-2000; 2000WO-US013358.
17-MAY-2000; 2000WO-US013705.
22-MAY-2000; 2000WO-US014042.
30-MAY-2000; 2000WO-US014941.
02-JUN-2000; 2000WO-US015264.
28-JUL-2000; 2000WO-US020710.

PR 11-AUG-2000; 2000WO-US022031.
 PR 23-AUG-2000; 2000WO-US023322.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 08-NOV-2000; 2000WO-US030952.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 28-AUG-2001; 2001US-00941992.
 XX (GETH) GENENTECH INC.
 XX
 PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
 PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PI;
 PI Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
 PI Zhang Z;
 XX
 DR WPI; 2003-155950/15.
 DR P-FSDB; ABUS9045.
 XX
 PT New secreted and transmembrane PRO polypeptides (e.g. PRO183, PRO184,
 PT PRO361 or PRO846) useful as targets for therapeutic intervention in
 PT cancers (e.g. lung or breast cancers), or for diagnosing these cancers.
 XX
 PS Claim 2; Fig 327; 647pp; English.
 XX
 CC The invention discloses isolated PRO secreted/transmembrane polypeptides
 CC comprising a sequence without signal peptide and the nucleic acid
 CC encoding them. The polypeptides can be used to raise antibodies that
 CC specifically bind to the PRO polypeptide, for linking a bioactive
 CC molecule to a cell expressing a PRO protein and for modulating at least
 CC one biological activity of a cell. The PRO polypeptides or
 CC polynucleotides are also useful as pharmaceuticals, diagnostics,
 CC biosensors or bioreactors, for detecting or treating e.g. tumours in
 CC mammals, e.g. humans, dogs, cats, cattle, horses, sheep, pigs, goats or
 CC rabbits as targets for therapeutic intervention in certain cancers (e.g.
 CC colon, lung or breast cancers) and diagnostic determination of the
 CC presence of these cancers. The PRO polypeptides are also useful as
 CC molecular weight markers or for chromosome identification. The PRO genes
 CC are useful as hybridisation probes or for screening libraries of human
 CC cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene
 CC therapy, particularly for replacing a defective gene. The sequences
 CC presented in ABX79250-ABX79675 are the genes encoding, the primers
 CC amplifying and the probes detecting the PRO polynucleotides of the
 CC invention. Note: The sequence data for this patent is also available in
 CC electronic format from USPTO at seqdata.uspto.gov/sequence.html
 XX
 SQ Sequence 2284 BP; 612 A; 576 C; 464 G; 632 T; 0 U; 0 Other;

Alignment Scores:
 Pred. No.: 1,02e-141 Length: 2284
 Score: 2211.00 Matches: 431
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 8 Gaps: 0

US-10-735-014-83 (1-431) x ABX79658 (1-2284)

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 DB 226 ATGTTCTTCGGGGGAGGAGGAGCTTACCTTGGTAATTTGCTTCTGACA 285
 QY 21 LeuArgLeuSerAlaSerGlnAsnCysLeuLysSerLeuGluAspValIleAsp 40
 DB 286 CTAAAGGCTGCTGCTAGTCAGAAATTCCTCAAAAGAGCTCTAGAAGATGTTGTCATTGAC 345
 QY 41 IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValThrSerThrGln 60
 DB 346 ATCCAGTCATCTCTTTCTTAAGGGAATCAGAGGCAATGAGCCCGTATATCTCAACTCAA 405

QY 61 GluAspCysIleAsnSerCysSerThrLysAsnIleSerGlyAspLysAlaCysAsn 80
 DB 406 GAAGACTGCAATTAATCTTCTGTTCAACAAAACATATCAGGGGCAAGCATGTATAC 465
 QY 81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysTyrLeuPhePheCys 100
 DB 466 TTGATGATCTTCGACACTCGAAAAACAGCTAGACAACCCCACTTACCTATTATTTCTGT 525
 QY 101 ProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeuMetSerTyrArgIleIle 120
 DB 526 CCCAACGAGGAAGCTGTCCATTGAACACGACAAAAGAGCTTATGAGTTACAGGATTAAT 585
 QY 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGlnLeuProGlnGluAspSer 140
 DB 586 ACAGATTTTCACTTTTGACAGAAATTTCCCAAGCCAGAGATTACCCAGGAGATCTCT 645
 QY 141 LeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAlaHisHisThrAspTyr 160
 DB 646 CTCTTACATGSCCAATTTTTCACAAGCAGTCACTCCCTCAGCCCATCATCACAGATTAT 705
 QY 161 SerLysProThrAspIleSerTyrArgAspThrLeuSerGlnLysPheGlySerSerAsp 180
 DB 706 TCAAGCCCAACCGATATCTCATGGAGAGACACACTTTCTCAGAAAGTTTGGATCCTCAGAT 765
 QY 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrLysGlu 200
 DB 766 CACTTGGAGAACTATTATTAAGATGGATGAAGCAAGTGCCAGCTCTTCTGCTTATAGGAA 825
 QY 201 LysGlyHisSerGlnSerGlnPheSerAspGlnGluIleAlaHisLeuLeuPro 220
 DB 826 AAAGGCCATTTCTCAGAGTTTCACAATTTCTCTGTGATCAAGAAATAGCTCATCTGCTCCT 885
 QY 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrSerAla 240
 DB 886 GAAATGTGAGTGCCTCCAGCTCCAGTCCGTCGAGTTGCTTCTCCACATACACCTCCGCT 945
 QY 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260
 DB 946 ACTCCAAGCCCGCCACCTTTTACCCACCAATGCTTCAGTGACACCTTCTGGGACTTCC 1005
 QY 261 GlnProGlnLeuAlaThrThrAlaProProValThrThrValThrSerGlnProProThr 280
 DB 1006 CAGCCACAGCTGGCCACACAGCTCCACCTGTAAACCACTGTCACTTCTCAGCTTCCACG 1065
 QY 281 ThrLeuIleSerThrValPheThrArgAlaAlaAlaThrLeuGlnAlaMetAlaThrThr 300
 DB 1066 ACCCTCATTTCTACAGTTTTCACGGGCTGCGGCTACACTCCAAGCAATGGCTACAA 1125
 QY 301 AlaValLeuThrThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
 DB 1126 GCAGTTCTGACTACCACTTTTCAAGGCACCTCAGGACTCGAAGGCGAGCTTAGAACCATA 1185
 QY 321 ProPheThrGluIleSerAsnLeuThrLeuAsnThrGlyAsnValTyrAsnProThrAla 340
 DB 1186 CCGTTTACAGAAATCTCCAACTTAACTTTGAACACAGGGAATGTGTATAAACCCCTACTGCA 1245
 QY 341 LeuSerMetSerAsnValGluSerSerThrThrMetAsnLysThrAlaSerTyrGluArg 360
 DB 1246 CTTTCTATGTCAATGTGGAGTCTTCCACTATCAATAAACTCTCTCTGGGAGGTAGG 1305
 QY 361 GluAlaSerProGlySerSerSerGlnGlySerValProGluAsnGlnTyrGlyLeuPro 380
 DB 1306 GAGGCCAGTCAGGAGCTTCTCCAGGCGAGTGTCCAGAAATCAGTACGCGCTTCCA 1365
 QY 381 PheGluLysTrpLeuLeuIleGlySerLeuLeuPheGlyValLeuPheLeuValIleGly 400
 DB 1366 TTTGAAAATGGCTTCTTATCGGGTCCCTGCTCTTTGGTGTCTTGTGTTCTCTGGTATAGGC 1425
 QY 401 LeuValLeuGlyArgIleLeuSerGluSerLeuArgArgLysArgTyrSerArgLeu 420
 DB 1426 CTCGTCTCTCTGGTGAATCTTTTCGGAATCACTCCGAGGAACGTTTACTCAAGACTG 1485

PR	18-AUG-1998;	98US-0096960P.	Db	226	ATGTTCTTCGGGGGAGAGGGAGCTTGACCTTACACCTTGGTAATAAATTTGCTTCTCTGACA	285
PR	18-AUG-1998;	98US-0097022P.	Qy	21	LeuArgLeuSerAlaSerGlnAsnCysLeuLysSerLeuGluAspValValIleAsp	40
PR	19-AUG-1998;	98US-0097141P.	Db	286	CTAAGGCTGTCTGCTAGTCAGAATTCCTCAAAAGAGCTAGAGAGATGTTGTCAATTGAC	345
PR	20-AUG-1998;	98US-0097218P.	Qy	41	IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValTyrThrSerThrGln	60
PR	24-AUG-1998;	98US-0097661P.	Db	346	ATCCAGTCATCTCTTCTTAAGGGAATCAGAGCAATGAGCCCGTATATATCTCACTCAA	405
PR	26-AUG-1998;	98US-0097952P.	Qy	61	GluAspCysIleAsnSerCysSerThrLysAsnIleSerGlyAspLysAlaCysAsn	80
PR	26-AUG-1998;	98US-0097955P.	Db	406	GAAGACTGCATTAATCTTCTGCTTCAACAAAAACATATCAGGGGACAAAGCATGAAC	465
PR	26-AUG-1998;	98US-0097971P.	Qy	81	LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysTyrLeuPhePheCys	100
PR	26-AUG-1998;	98US-0097978P.	Db	466	TTGATGATCTTCGACACTCGAAAAACAGCTAGACAAACCCCACTGCTACCTATTCTGT	525
PR	26-AUG-1998;	98US-0097986P.	Qy	101	ProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeuMetSerTyrArgIleIle	120
PR	31-AUG-1998;	98US-0098014P.	Db	526	CCCAACGAGGAGCGCTGCTCCATTGAAACACAGCAAAAGGACTTATGAGTTACAGATAAT	585
PR	16-SEP-1998;	98US-0098525P.	Qy	121	ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer	140
PR	16-SEP-1998;	98US-0100634P.	Db	586	ACAGATTTTCATCTTTTGACAGAAATTTGCCAAGCCACAGAGTTACCCAGGAAGATTCT	645
PR	17-SEP-1998;	98US-0100858P.	Qy	141	LeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAlaHisHisThrAspTyr	160
PR	07-OCT-1998;	98WO-US021141.	Db	646	CTCTTACATGGCCAAATTTTTCACAGCAGTCACTCCCTAGCCCATCAACACAGATTAT	705
PR	01-DEC-1998;	98WO-US025108.	Qy	161	SerLysProThrAspIleSerTrpArgAspThrLeuSerGlnLysPheGlySerSerAsp	180
PR	22-DEC-1998;	98WO-US021090.	Db	706	TCAAAGCCCAACCGATATCTCATGGAGAGACACACTTCTCAGAAGTTTGGATCCTCAGAT	765
PR	05-JAN-1999;	99WO-US0000106.	Qy	181	HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrLysGlu	200
PR	20-FEB-1999;	99WO-US030911.	Db	766	CACCTGGAGAAATATTATTAAAGATCGATGAAGCAAGTCCAGCTCTCTGCTTAAAGAA	825
PR	08-MAR-1999;	99WO-US005028.	Qy	201	LysGlyHisSerGlnSerGlnPheSerSerAspGlnGluIleAlaHisLeuLeuPro	220
PR	12-MAR-1999;	99US-0123957P.	Db	826	AAAGGCCATTTCTCAGAGTTTCAAAATTTCTCTGATCAAGAAATAGTCACTGCTGCT	885
PR	02-JUN-1999;	99WO-US012252.	Qy	221	GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrThrSerAla	240
PR	23-JUN-1999;	99US-0141037P.	Db	886	GAATAATGTGATGGCTCCAGCTACGGTGGCAGTTGCTTCTCCACATACCACCTCGCT	945
PR	07-JUL-1999;	99US-0143048P.	Qy	241	ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer	260
PR	26-JUL-1999;	99US-0145698P.	Db	946	ACTCCAAAGCCCGCACCTTCTACCCACCAATGCTTCACTGACACCTTCTGGGACTTCC	1005
PR	28-JUL-1999;	99US-0146222P.	Qy	261	GlnProGlnLeuAlaThrThrAlaProProValThrThrValThrSerGlnProProThr	280
PR	17-AUG-1999;	99US-0149396P.	Db	1006	CAGCCACAGCTGGCCACACAGCTCCACTGTAAACCACTGTCACTTCTCAGCTTCCACG	1065
PR	15-SEP-1999;	99WO-US021547.	Qy	281	ThrLeuIleSerThrValPheThrArgAlaAlaAlaThrLeuGlnAlaMetAlaThrThr	300
PR	08-OCT-1999;	99US-0158663P.	Db	1066	ACCCTCATTTCTACAGTTTTCACAGGGCTGCGGCTACACTCCAAGCAATGGCTACAACA	1125
PR	30-NOV-1999;	99WO-US028313.	Qy	301	AlaValLeuThrThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle	320
PR	01-DEC-1999;	99WO-US028301.	Db	1126	GCAGTTCTGACTACCACTTTCAGGCACCTTACGGACTCGAAAGCGAGCTTAGAACCATTA	1185
PR	16-DEC-1999;	99WO-US030095.	Qy	321	ProPheThrGluIleSerAsnLeuThrLeuAsnThrGlyAsnValTyrAsnProThrAla	340
PR	05-JAN-2000;	2000WO-US000219.	Db	1186	CCGTTTACAGAAATCTCCAACTTAACTTTGAAACAGAGGAATGTGTATATACCTTACGCA	1245
PR	06-JAN-2000;	2000WO-US000376.	Qy	341	LeuSerMetSerAsnValGluSerSerThrMetAsnLysThrAlaSerTrpGluGlyArg	360
PR	11-FEB-2000;	2000WO-US003565.	Db	1246	CTTCTATGTCAAATGTGGAGTCTTCCACTATGAATAAAACTGCTTCTGGGAGGTAGG	1305
PR	18-FEB-2000;	2000WO-US004341.	Qy	361	GluAlaSerProGlySerSerGlnGlySerValProGluAsnGlnTyrGlyLeuPro	380
PR	22-FEB-2000;	2000WO-US004414.	Db	1306	GAGGCCAGTCCAGGCAGTTCCTCCAGGGCAGTGTTCAGAGAAATCAGTAGCGGCTTCCA	1365
PR	24-FEB-2000;	2000WO-US004914.				
PR	24-FEB-2000;	2000WO-US005004.				
PR	02-MAR-2000;	2000WO-US005841.				
PR	10-MAR-2000;	2000WO-US006319.				
PR	15-MAR-2000;	2000WO-US006884.				
PR	20-MAR-2000;	2000WO-US007377.				
PR	30-MAR-2000;	2000WO-US008439.				
PR	15-MAY-2000;	2000WO-US013358.				
PR	17-MAY-2000;	2000WO-US013705.				
PR	22-MAY-2000;	2000WO-US014042.				
PR	30-MAY-2000;	2000WO-US014941.				
PR	02-JUN-2000;	2000WO-US015264.				
PR	23-JUN-2000;	2000US-0213637P.				
PR	28-JUL-2000;	2000WO-US020710.				
PR	11-AUG-2000;	2000WO-US022031.				

Alignment Scores:

Pred. No.:	1,02e-141	Length:	2284
Score:	2211.00	Matches:	431
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	8	Gaps:	0

US-10-735-014-83 (1-431) x ACA93679 (1-2284)

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Db 1366 TTGAAAAATGGCTTCTATCGGTCCTCTTTGGTGTCTCTGTTCTCGGTGATAGC 1425
Qy 401 LeuValLeuGlyArgIleLeuSerGluSerLeuLeuArgGlyArgGlySerArgLeu 420
Db 1426 CTCGCTCTCTGGTGAATCCTTTCCGAATCACTCCGAGAAACGTTACTCAAGACTG 1485
Qy 421 AspTyrLeuIleAsnGlyIleTyrValAspIle 431
Db 1486 GATTATTTCATCAATGGGATCTATGTGGACATC 1518
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ID ABX81361 standard; DNA; 2284 BP.
XX
AC ABX81361;
XX
DT 22-APR-2003 (first entry)
XX
DE Novel human secreted or transmembrane protein PRO846 DNA.
KW Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;
KW cardiac insufficiency disorder; cancer; tumour; immune response;
KW adrenal cortical capillary endothelial growth; c-fos induction;
KW vascular endothelial growth factor inhibition; VEGF inhibition;
KW endothelial cell growth inhibitor; T-lymphocytes stimulation;
KW retinal neurons cell survival; rod photoreceptor cell survival;
KW retinal disorder; retinitis pigmentosa; kidney disorder;
KW mammalian kidney mesangial cell proliferation; Berger disease;
KW dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;
KW chondrocyte redifferentiation; sports injury; arthritis; genes; ds.
XX
OS Homo sapiens.
XX
PN US2003027985-A1.
XX
PD 06-FEB-2003.
XX
PF 14-NOV-2001; 2001US-00990562.
XX
PR 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US020069.
PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.
PR 07-MAY-1998; 98US-0084600P.
PR 28-MAY-1998; 98US-0087108P.
PR 02-JUN-1998; 98US-0087607P.
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PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
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PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089947P.
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PR 22-JUN-1998; 98US-0090246P.
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PR 01-JUL-1998; 98US-0090863P.
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PR 02-JUL-1998; 98US-0091673P.
PR 07-JUL-1998; 98US-0091978P.
PR 07-JUL-1998; 98US-0091982P.
PR 09-JUL-1998; 98US-0092182P.
PR 10-JUL-1998; 98US-0092472P.
PR 20-JUL-1998; 98US-0093339P.
PR 30-JUL-1998; 98US-0094651P.
PR 04-AUG-1998; 98US-0095282P.
PR 04-AUG-1998; 98US-0095285P.
PR 04-AUG-1998; 98US-0095301P.
PR 04-AUG-1998; 98US-0095302P.
PR 04-AUG-1998; 98US-0095318P.
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PR 10-AUG-1998; 98US-0096012P.
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PR	17-AUG-1998;	98US-0096881P.	Db	226 ATGTTCTTCGGGGAGAGGAGCTTGACTTACATTTGGTAATAATTTGCTTCTTGACA 285
PR	17-AUG-1998;	98US-0096894P.	Qy	21 LeuArgLeuSerAlaSerGlnAnCysLeuLysLysSerLeuGluLeuValIleLeuLeuThr 40
PR	17-AUG-1998;	98US-0096895P.	Db	286 CTAAGGCTGTCTGCTAGTCAAGTTGCCTCAAAAGAGTCTAGAGATGTTGTTCATTGAC 345
PR	17-AUG-1998;	98US-0096897P.	Qy	41 IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValTyrThrSerThrGln 60
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - nucleic search, using frame_plus_p2n model

Run on: April 26, 2005, 22:02:22 ; Search time 223 Seconds
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Title: US-10-735-014-83

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Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	194.5	8.8	1642	4	US-09-489-847-70
5	193	8.7	1826	4	US-09-774-528-230
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7	157	7.1	16562	4	US-09-949-016-13892
8	152	6.9	1297	4	US-09-976-594-950
9	148	6.7	2032	3	US-09-241-581B-5
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Length: 2284

Alignment Scores:
Pred. No.:

1.97e-217

Length: 2284

ALIGNMENTS

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; Patent No. 6642360
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; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavini, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tamas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/866,028
; PRIOR APPLICATION DATA REMOVED - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 82
; LENGTH: 2284
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-866-028-82

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C 19	141.5	6.4	3486	4	US-09-614-221A-292	Sequence 292, App
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Qy 201 LysGlyHisSerGlnSerSerGlnPheSerAspGlnGluIleAlaHisLeuLeuPro 220
Db 826 AAAGGCCATTTCTCAGAGTTCAAAATTTCTCTGATCAAGAAATAGCTCATCTGCTGCT 885

Qy 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrThrSerAla 240
Db 886 GAAATGTGTAGTGGCTCCAGCTACGGTGGAGTGTCTTCTCCACATACCACTCGGCT 945

Qy 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260
Db 946 ACTCAAGCCCGCCACCCCTTCTACCCCAATGCTTCAGTGACACCTTCTGGAGCTTC 1005

Qy 261 GlnProGlnLeuAlaThrThrAlaProProValThrThrValThrSerGlnProThr 280
Db 1006 CAGCCACAGCTGGCCACACAGCTCCACTGTACCACTGTCTCTCAGCTTCCACG 1065

Qy 281 ThrLeuIleSerThrValPheThrArgAlaAlaThrLeuGlnAlaMetAlaThrThr 300
Db 1066 ACCCTCATTTCTACAGTTTTCACAGGCTCGGCTACACTTCCCAAGAAATGGCTTACAACA 1125

Qy 301 AlaValLeuThrThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
Db 1126 CGAGTTCTGACTTACCACTTTTACAGGCTTACGAGCTGCAAGAGGAGCTTAGAAACATA 1185

Qy 321 ProPheThrGluIleSerAsnLeuThrLeuAsnThrGlyAsnValTyrAsnProThrAla 340

Db 1186 CCGTTTACAGAAATCTCCAACCTTTAACTTTGAACACAGGGAATGTATATAACCTTACTGCA 1245

Qy 341 LeuSerMetSerAsnValGluSerSerThrMetAsnLysThrAlaSerThrGluGlyArg 360
Db 1246 CTTTCTATGTCAAAATGTGGAGTCTTCCACTATGAATAAACTGCTTCTCTGGAGGTAGG 1305

Qy 361 GluAlaSerProGlySerSerSerGlnGlySerValProGluAsnGlnTyrGlyLeuPro 380
Db 1306 GAGCCAGTCCAGCAGTTCTTCCAGGGCAGTGTCCAGAAATCAGTACGGCTTCCA 1365

Qy 381 PheGluLysThrLeuLeuIleGlySerLeuLeuPheGlyValLeuPheLeuValIleGly 400
Db 1366 TTTGAAATGGCTTCTTATCGGGTCCCTCTCTTTGGTCTCTGTTCTCTGGTATAGGC 1425

Qy 401 LeuValLeuLeuGlyArgIleLeuSerGluSerLeuArgLysArgTyrSerArgLeu 420
Db 1426 CTGCTCTCTGGGTAGAATCTTTCGGAATCACTCCGCAAGAAACGTTACTCAAGACTG 1485

Qy 421 AspTyrLeuIleAsnGlyIleTyrValAspIle 431

Db 1486 GATTATTGATCAATGGATCTATGTGACATC 1518

RESULT 2
US-09-944-457-82
; Sequence 82, Application US/09944457
; Patent No. 6734288
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavini, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,457
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997

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; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. 6734288ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. 6734288ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 26, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 82
; LENGTH: 2284
; TYPE: DNA
; ORGANISM: Homo Sapien
; US-09-944-457-82

Alignment Scores:
Pred. No.: 1,976-217 Length: 2284
Score: 2211.00 Matches: 431
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 4 Gaps: 0

US-10-735-014-83 (1-431) x US-09-944-457-82 (1-2284).

QY 1 MetPheGlyGlyGluCysSerLeuThrValLeuValleCysPheLeuThr 20
Db ATGTTCTTCGGGGAGAGAGGAGCTTGACTTACCTTTGGTAATAATTGCTTCTGACA 285

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21 LeuArgLeuSerAlaSerGlnAsnCysLeuLysLysSerLeuGluAspValValleAsp 40
286 CTAAGGCTGCTGCTAGTCAGAAATTCCTCAAAAAGAGTCTAGAAGATCTGTGATTGAC 345
41 IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValTyrThrSerThrGln 60
346 ATCCAGTCAATCTCTTCTTAAGGGAATCAGAGGCAATGAGCCGCTATATATCTCAACTCA 405
61 GluAspCysIleAsnSerCysSerThrLysAsnIleSerGlyAspLysAlaCysAsn 80
406 GAAGACTGCATTAATCTTCTGTTTCACAAAAACATATCAGGGGACAAAGCATGTAAC 465
81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysTyrLeuPhePheCys 100
466 TTGATGATCTTCGACACTCGAAAAACAGCTAGACAAACCAACTGCTACCTATTTTCTGT 525
101 ProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeuMetSerTyrArgIleIle 120
526 CCCAACGAGGAAAGCTGCTCATTTGAACACGACAAAGGACTTATGAGTTACAGGATAAT 585
121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer 140
586 ACAGATTTTCCATCTTTCACAGAAATTTGCCAAGCAAGAGTTACCCAGGAGATTCT 645
141 LeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAlaHisHisThrAspTyr 160
646 CTCCTTACATGGCCAAATTTTCAAGCAGTCACTCCCTAGCCCATCATCACAGATTAT 705
161 SerLysProThrAspIleSerTrpArgAspThrLeuSerGlnLysPheGlySerSerAsp 180
706 TCAAGGCCACCGATATCTTCATGGAGAGACACACTTCTCAGAAGTTTGGATCCTCAGAT 765
181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuAlaTyrLysGlu 200
766 CACCTGGAGAACTATTTAAGATGATGAAGCAAGTGGCCAGCTCTTGTCTTATAAGAA 825
201 LysGlyHisSerGlnSerSerGlnPheSerAspGlnGluIleAlaHisLeuLeuPro 220
826 AAAGGCCATTTCTCAGAGTTCAAAATTTCTCTGTATCAAGAAATAGTCTCATCTGCTGCCT 885
221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrThrSerAla 240
886 GAAAATGTGAGTGGCTCCAGCTACGGTGGCAGTTGCTTCTCCACATACCACTCGGCT 945
241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260
946 ACTCCAAAGCCGCCACCTTCTACCCACCAATGCTTCTAGTGACACCTTCTGGGACTTCC 1005
261 GlnProGlnLeuAlaThrAlaProProValThrValThrValThrSerGlnProThr 280
1006 CAGCCACAGCTGGCCACACAGCTCCACTGTAAACCACTGTCTCCTCAGCTCCCAAG 1065
281 ThrLeuIleSerThrValPheThrArgAlaAlaThrLeuGlnAlaMetAlaThrThr 300
1066 ACCCTCATTTCTACAGTTTTCACAGGCTGCGGCTACACTTCAAGCAATGGCTCAACA 1125
301 AlaValLeuThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
1126 GCAGTTCGACTACCACTTTTCAGGCACTACGACTCGAAGGAGGAGCTTAGAAGACATA 1185
321 ProPheThrGluIleSerAsnLeuThrLeuAsnThrGlyAsnValTyrAsnProThrAla 340
1186 CCGTTTACAGAAATCTCCAACTTAATTTGAACACAGGGAATGTGTATAAACCTACTGCA 1245
341 LeuSerMetSerAsnValGluSerSerThrMetAsnLysThrAlaSerTrpGluGlyArg 360
1246 CTTTCTATGTCAAATGTGGAGTCTTCCACTATGAATAAACTGCTTCTCTGGGAAGGTAGG 1305
361 GluAlaSerProGlySerSerSerGlnGlySerValProGluAsnGlnTyrGlyLeuPro 380
1306 GAGGCCATGACGAGGAGTTCTCCAGGGGAGTGTTCAGAGAAATCAGTACGGCTTCCA 1365
381 PheGluLysTrpLeuLeuIleGlySerLeuLeuPheGlyValLeuPheLeuValleGly 400

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Db 1366 TTTGAAAAATGGCTCTTTATCGGTCCTGCTCTTTGGTGCTGCTTCTTGGTATAGGC 1425
Qy 401 LeuValLeuLeuGlyArgIleLeuSerGluSerLeuArgLysArgTyrSerArgLeu 420
Db 1426 CTCGFCCTCCTGGGAGAGATCCTTCGGAATCACTCCGCGAGAAACGTTACTCAAGACTG 1485
Qy 421 AspTyrLeuIleAsnGlyIleTyrValAspIle 431
Db 1486 GATTATTGATCAATGGGATCTAATGTCATC 1518

RESULT 3

US-09-513-999C-9897
; Sequence 9897, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513.999C
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 9897
; LENGTH: 295
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 58
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 59
; OTHER INFORMATION: w-a or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 69
; OTHER INFORMATION: r-a or g
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 82
; OTHER INFORMATION: r-a or g
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 83
; OTHER INFORMATION: w-a or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 126
; OTHER INFORMATION: k-g or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 129
; OTHER INFORMATION: m-a or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 133
; OTHER INFORMATION: m-a or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 136
; OTHER INFORMATION: r-a or g
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 158
; OTHER INFORMATION: b-c or g or t
US-09-513-999C-9897

Alignment Scores:

Pred. No.: 6.49e-16 Length: 295
Score: 242.00 Matches: 54
Percent Similarity: 91.53% Conservatives: 0
Best Local Similarity: 91.53% Mismatches: 3
Query Match: 10.95% Indels: 2
DB: 4 Gaps: 0

US-10-735-014-83 (1-431) x US-09-513-999C-9897 (1-295)

Qy 375 AsnGlnTyrGlyLeuProPheGluLysTyrLeuIleGlySerLeuLeuPheGlyVal 394
Db 1 AATCAGTACGGCTTCATTTGAAATGGCTTCTTATCGGTCCTGCTCTTTGGTRWC 60
Qy 395 LeuPheLeuValIleGlyLeuValLeuLeuGlyArgIleLeuSerGluSerLeuArg 414
Db 61 CTGTTCTCTGTGATAGGCTTCRWCTCTCTGGTAGAATCTCTCGGAATCACTCCGAGG 120
Qy 415 LysArg-TyrSerArg-LeuAspTyrLeuIleAsnGlyIleTyrValAspIle 431
Db 121 AAACGKTAMCTMAGRACTGGATTACTTGATCAATGGBATCTATGTGACATC 173

RESULT 4

US-09-489-847-70
; Sequence 70, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031P1
; CURRENT APPLICATION NUMBER: US/09/489,847
; CURRENT FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 70
; LENGTH: 1642
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-489-847-70

Alignment Scores:

Pred. No.: 1.07e-09 Length: 1642
Score: 194.50 Matches: 105
Percent Similarity: 37.06% Conservatives: 64
Best Local Similarity: 23.03% Mismatches: 166
Query Match: 8.80% Indels: 121
DB: 4 Gaps: 20

US-10-735-014-83 (1-431) x US-09-489-847-70 (1-1642)

Qy 20 ThrLeuArgLeuSerAlaSerGlnAsnCysLeuLysSerLeuGluAspValValle 39
Db 289 AGCATCYCCTTAGCAGCAGCTCTGATCCCTTGGCCAAGCAG---GAGGGAACCATTAGC 345
Qy 40 AspIleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValTyrThrSerThr 59
Db 346 AGCCTGAGGAGCTGGCTGGCT---GGAGGCTCGGGACCGCCAGCCTGTGCTCCAGCT 402
Qy 60 GlnGluAspCysIleAsnSerCysSerThrLysAsn-----lleSerGlyAsp 76

Db 403 CACCCACAAGATGTGGACAGCTCTTGTGCTCATTTGGATTYYYTCCTTCTCTTATCTGA 462
QY 77 LysAlaCysAsnLeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysTyr 96
Db 463 AAGCCATGCGGCATCCAA-----CGATCCACG-----489
QY 97 LeuPheCysProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeu-----114
Db 490 -----CAAATTTGTCCTTAACAAAATGTGGAGGGATTATGTCAA 528
QY 115 -----Met 115
Db 529 GAGGAATGCATCTGTGGAAACAGTTGATAATAAAACGCTCTGAGGATGTAAACATGGCAGC 588
QY 116 SerTyrArgIleThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeu 135
Db 589 AGCTTCCTCTGTACATTCACCAAGAGGATTGGCAGCCCACTCAACTCTATGGAAGTC 648
QY 136 ProGlnGluAspSerLeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAlaHis 155
Db 649 ACAACAGAGGACACA-----663
QY 156 HisHisThrAspTyrSerLysProThrAspIleSerTrpArgAspThrLeuSerGlnLys 175
Db 664 ACAGGACAGATGTGTAGTGAACCA-----GCAACTTCA 696
QY 176 PheGlySerSerAspHisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeu 195
Db 697 GGAGGTGACAGTGTGTGACCTCCATTCCTCCACGGCTGTGGCTCCAGTAGCAGCT 756
QY 196 LeuAlaTyrLysGluLysGlyHisSerGlnSerSerGlnPheSerSerAspGlnGluLeu 215
Db 757 GCGGCC-----TCCATTAGCAGCTGCGGCCCTCCAGTATGACTGTG 795
QY 216 AlaHisLeuLeuProGluAsnValSerAlaLeuProAlaThrValAlaValAlaSerPro 235
Db 796 GCTCTCAGTGCTCCC-----ACGACTGAGCCTCCAGTACAACTGTGGCTCCATTCCTGCC 852
QY 236 HisThr-----ThrSerAlaThrProLysProAlaThrLeu-----LeuPro 249
Db 853 ACAGCTACAGCTCCAGTATGACTGGCGCTCCAGCACTCCCATGACACTTCGACTCCCC 912
QY 250 ThrAsnAlaSerVal-----ThrProSer-----GlyThrSerGlnProGln 263
Db 913 GCGCCACGCTCCACTTTCACAGGGCGGACCCGCTCCATACGCGCACTGGGCATCATCT 972
QY 264 LeuAlaThrThrAlaProValThrThrValThrSerGlnProProThrThrLeuLeu 283
Db 973 CTCAGCACAGCCCTCGCAAGTGCACAAAGCAGCGCTTCCCAAGCATGCCAGTGACACCCGGCA 1140
QY 284 SerThrValPheThrArgAlaAlaAlaThrLeuGlnAlaMetAlaThrThrAlaValLeu 303
Db 1033 GCCATATTGGCCACAGTGCT-----CAGACTGTAGCGACCAACCAACACA 1080
QY 304 ThrThrThrPheGlnAla-----ProThrAspSerLysGlySerLeuGluThrIleProPhe 322
Db 1081 AGCAGCCCCATGAGCACTCGTCCAAAGTCCTTCCAAAGCATGCCAGTGACACCCGGCA 1140
QY 323 ThrGluIleSerAsnLeuThrLeuAsnThrGlyAsnValThrAsnProThrAla-----340
Db 1141 AGCCCTGTACCCCTCATGCT-----CCCCAAGCACAAAGT 1176
QY 341 ---LeuSerMetSerAsnValGluSerSerThrMetAsnLysThrAlaSerTrpGluGly 359
Db 1177 CCATTAGCCAGGTGTAGTGACCAAGCTGTGGTTAACAAACA-----1221
QY 360 ArgGluAlaSerProGlySerSerGlnGlySerValProGluAsnGlnTyrGlyLeu 379
Db 1222 -----WATAAAATCCACAMCCATGCCCTCAACACACACACCCWAG 1260
QY 380 ProPhe-----GluLysTrpLeuLeuIleGlySerLeuLeuPheGlyVal 394
Db 1261 CCCCTCACCCAGCGCGTGTAGACAAAACCTCTCTTCTGTGGTGTGTGTACTCGGGGTG 1320

QY 395 LeuPheLeuValIleGlyLeuValLeuLeuGlyArgIleLeuSerGluSerLeuArgArg 414
Db 1321 ACCCTTTTCATCAGACTCTTGGTTTGTTCCTGCAGGCTATGAGAGCTACAAGAAG 1380
QY 415 LysArgTyrSerArgLeuAspTyrIleuLeuAsnGlyIleTyrValAsp 430
Db 1381 AAGGACTACACCCAGGTGGACTACTTAATCAACGGGATGTATCGCGAC 1428

RESULT 5

US-09-774-528-230

; Sequence 230, Application US/09774528

; Patent No. 6743619

; GENERAL INFORMATION:

; APPLICANT: Tang, Y. Tom

; APPLICANT: Zhou, Ping

; APPLICANT: Goodrich, Ryle

; APPLICANT: Liu, Chenghua

; APPLICANT: Asundi, Vinod

; APPLICANT: Ren, Feiyan

; APPLICANT: Zhang, Jie

; APPLICANT: Zhao, Qing A.

; APPLICANT: Yang, Yonghong

; APPLICANT: Xue, Aidong J.

; APPLICANT: Wehrman, Tom

; APPLICANT: Wang, Jian-Rui

; APPLICANT: Wang, Dunrui

; APPLICANT: Drmanac, Radoje T.

; TITLE OF INVENTION: No. 6743619el Nucleic Acids and

; FILE OF INVENTION: Polypeptides

; FILE REFERENCE: 802

; CURRENT APPLICATION NUMBER: US/09/774,528

; CURRENT FILING DATE: 2001-01-30

; NUMBER OF SEQ ID NOS: 441

; SOFTWARE: pt_FL_genes Version 2.0

; SEQ ID NO 230

; LENGTH: 1826

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (415)..(1764)

; US-09-774-528-230

Alignment Scores:

Pred. No.:	1,85e-09	Length:	1826
Score:	193.00	Matches:	126
Percent Similarity:	34.50%	Conservative:	61
Best Local Similarity:	23.25%	Mismatches:	170
Query Match:	8.73%	Indels:	187
DB:	4	Gaps:	23

US-10-735-014-83 (1-431) x US-09-774-528-230 (1-1826)

QY 20 ThrLeuArgLeuSerAlaSerGlnAsnCysLeuLysSerLeuGluAspValValIle 39
Db 291 AGCATCCCTTAGCAGCAGCTCTGATCCCTTGGCCAAGCAG---GAGGGAACCATAGC 347
QY 40 AspIleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValTyrThrSerThr 59
Db 348 AGCCTGAGGAGCTGGCTGGCTGGGAGCCT-CCGGGACCGCCAGCCTTGTCTCCAGCTCA 406
QY 60 GlnGluAspCysValIleAsnSerCysCysSerThrLysAsnIleSerGlyAspLysAlaCys 79
Db 407 CCCAAGATGTGGACAGCTCTTGTGCTCA-----TTTGGATTTTCTCTTGT 454
QY 80 AsnLeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysTyrLeuPhePhe 99
Db 455 CCTTATCTG-----AAAGCCATGCGGCATCCCAACGATCCACGCAAC-TTT 498
QY 100 CysProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeuMet-----115
Db 499 GTCCCTTAAC-----AAAAATGTGAAGGGATTAGTCAAGAGGAATGCA 540

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Qy 116 SerTyrArgIleIleThrAspPheProSer----- 125
Db 541 TCTGTGGAACAGTTGATTAATAAACGCTCTGAGATGTAAACATGGCAGCAGCTTCTCCT 600
Qy 126 -----LeuThrArg----- 138
Db 601 GTCACATTGACCAAGAGGACTTCGGCAGCCACCTCAACTCTATGGAAGTCACAACAGAG 660
Qy 139 AspSerLeuLeuHisGlyClnPheSerClnAlaValThrProLeuAlaHisHisThr 158
Db 661 GACACA-----AGCAGGACA 675
Qy 159 AspTyrSerLysProThrAspIleSerTrpArgAspThrLeuSerGlnLysPheGlySer 178
Db 676 GATGTAGTGAACCA-----GCAACTTCAGGAGTTGCA 708
Qy 179 SerAspHisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyr 198
Db 709 GCTGATGTGTGACCTCCATTGCTCCACAGGCTGTGGCTCCAGTACGACTGCGGCC--- 765
Qy 199 LysGluLysGlyHisSerClnSerSerClnPheSerSerAspGlnGluIleAlaHisLeu 218
Db 766 -----TCCATTACGACTCGGCCTCCAGTATGACTGTGGCTCCAGT 807
Qy 219 LeuProGluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThr--- 237
Db 808 GCTCCC---ACGACTGAGCTCCAGTACACTGTGGCTCCATGTCTCCACACATGCA 864
Qy 238 -----ThrSerAlaThrProLysProAlaThrLeu-----LeuProThr 250
Db 865 GCCTCCAGTATGACTCGCGCTCCAGCAGCTCCCATGACACTTGCACCTCCCGGCCCAAG 924
Qy 251 AsnAlaSerVal-----ThrProSer-----GlyThrSerGlnProGlnLeuAlaThr 266
Db 925 TCCACTTCCACAGGCGGACCCGCTCCACTACCGCCACTGGGCATCCATCTCTCAGACA 984
Qy 267 ThrAlaProProValThrThrValThrSerGlnProProThrThrLeuLeuSerThrVal 286
Db 985 GCCCTCGCACAAAGTGCCAAAGAGCAGCGGTGTCAGAACAGCAGCAACCTGGCCACATTG 1044
Qy 287 PheThrArgAlaAlaAlaThrLeuGlnAlaMetAlaThrAla----- 301
Db 1045 GCCACACGTGCT-----CAGACTGTAGCGACCCACAGCAAAACACAAAGCAGCCCC 1092
Qy 301 ----- 301
Db 1093 ATGAGCACTCGTCCAAAGTCTTCCAAAGCACATGCCAGTGACACCGCGGCAAGCCCTGTA 1152
Qy 301 ----- 301
Db 1153 CCCCTATGCTGCCCAAGCACAGGTCCCATTTAGCCAGGTGTGTCAGTGGACCGCTGTG 1212
Qy 302 ValLeuThrThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIlePro 321
Db 1213 GTTAAACACAAATAATATCCACCCCATGCGCTCAAAACACACCCCGAGCGCCGCCCC 1272
Qy 322 PheThrGluIleSerAsnLeuThrLeuAsnThrGlyAsnValTyrAsnProThrAlaLeu 341
Db 1273 ACCCCCAAGTG-----GTGACCACCAACCAAGCACAAGCCAGGAGCCCAACTGCCAGC 1326
Qy 342 -----SerMetSer---AsnVal 346
Db 1327 CCAGTGGCAGTACCTCACACAGGCCCAATCCCTGAGATGGAGGCCATGTCCCCACACACA 1386
Qy 347 GluSerSerThrMetAsnLysThrAlaSerTrpGluGly----- 359
Db 1387 CAGACAAGCCCATGCCATATACCCAGAGGAGCCTGGGCCGAGGCACATCCAGGCACCG 1446
Qy 360 -----ArgGluAlaSerProGlySerSerGlnGlySerValProGluAsn 375
Db 1447 GAGCAGGTAGAGACTGAAGCCACACAGGTACTGATTCTCCACTGTGGCCCAACACCCAGGAGC 1506
```

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Qy 376 GlnTyrGly-----LeuPro----- 380
Db 1507 TCAGGGGGCACTAAGATGCCAGCCAGGACTCGTGCAGCCAGCCAGCCAGCCAGCTAC 1566
Qy 381 -----PheGluLysTrpLeuLeuLeuGly 388
Db 1567 ATGCTGTGCACCACTAGCCCTCAGCCAGCGGTGTAGACAAACACTCTCTTCTGGTG 1626
Qy 389 SerLeuLeuPheGlyValLeuPheLeuValIleGlyLeuValLeuGlyArgIleLeu 408
Db 1627 GTCTGTGTACTCGGGGTGACCTTTTCATCACAGTCTTGTGTTCCTGCGAGGCC 1686
Qy 409 SerGluSerLeuArgLysArgTyrSerArgLeuAspTyrLeuLeuAsnGlyIleTyr 428
Db 1687 TATGAGAGCTACAGAAGAAGGACTACACCCAGGTGGACTACTTAATCAACGGGATGTAT 1746
Qy 429 ValAsp 430
Db 1747 GCGGAC 1752

RESULT 6
US-09-799-451-412
; Sequence 412, Application US/09799451
; Patent No. 6783969
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Zhou, Ping
; APPLICANT: Goodrich, Ryle
; APPLICANT: Asundi, Vinod
; APPLICANT: Ren, Feiyan
; APPLICANT: Zhang, Jie
; APPLICANT: Xue, Aidong J.
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Ma, Yunging
; APPLICANT: Yamazaki, Victoria
; APPLICANT: Chen, Rui-hong
; APPLICANT: Wang, Zhiwei
; APPLICANT: Wang, Dunrui
; APPLICANT: Yang, Yonghong
; APPLICANT: Wehrman, Tom
; APPLICANT: Ghosh, Reena
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. 6783969el Nucleic Acids and
; FILE REFERENCE: 803
; CURRENT APPLICATION NUMBER: US/09/799,451
; CURRENT FILING DATE: 2001-03-05
; NUMBER OF SEQ ID NOS: 948
; SOFTWARE: pt FL_genes Version 2.0
; SEQ ID NO 412
; LENGTH: 1638
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (325)..(1353)
US-09-799-451-412

Alignment Scores:
Pred. No.: 3,44e-06 Length: 1638
Score: 160.50 Matches: 66
Percent Similarity: 39.85% Conservative: 42
Best Local Similarity: 24.35% Mismatches: 114
Query Match: 7.26% Indels: 49
DB: 4 Gaps: 9

US-10-735-014-83 (1-431) x US-09-799-451-412 (1-1638)

Qy 147 SerGlnAlaValThrProLeuAlaHisHisThrAspTyrSerLysProThrAspIle 166
Db 43 TCCCAACCAAGTCCAGGAGACTGTCTATCCCGGTGTCACCTGGAGCCAAAGTGTGACGTA 102
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QY 167 SerTrp-----ArgAspThrLeuSerGlnLysPheGly 177
Db 103 GACTTCCCATCCCTCGGACCCACGCGGGGACAGAAACCTCAACAACATCATCAGG 162
QY 178 SerSerAspHisLeu-----GluLysLeuPheLysMetAsp----- 189
Db 163 AGTGGGAAAAATCTGCGCGCGACCTGAGGAGATCACCGAGCTCAGTGGCGGACCGAG 222
QY 190 -----GluAlaSerAlaGlnLeuLeuAlaTyr-----LysGluLys 201
Db 223 AGCCACCGGAGGTGAGCATTCACACCTTGGCCAGGTGGTGCAGTGCAGCGGTGAAGAG 282
QY 202 Gly-----HisSerGlnSerSerGlnPheSerSer-----AspGlnGlu 214
Db 283 GGCCTGGTGTGCGGGAACAGGACAGGAGGACCCCTTCAAGATGTGCCTCAACTACGAG 342
QY 215 IleAlaHisLeuLeuProGluAsnValSerAlaLeuProAlaThrValAlaValaLaser 234
Db 343 GTGGGTGTCTCTGTGCGAGACCCCTAAAGGTGGCCGTGACC-----TCCACA 393
QY 235 ProHisThrThrSerAlaThrProLysProAlaThrLeuLeuProThrAsnAlaSer--- 253
Db 394 CTGTGACAGCTCCTAGCACCCCTAGTGGGAGAGCCACGAGCCCAACTCAGAGCACTTCC 453
QY 254 -----ValThrProSerGlyThrSerGlnProGln 263
Db 454 TCTTGGCAGAAATCCAGGACAAACCACTTTGGTGACAAACGAGCACAACCTCCACTCCACAG 513
QY 264 LeuAlaThrThrAlaProValThrThrValThrSerGlnProProThrThrLeuLeu 283
Db 514 ACCAGCACAACCTCTGCTCTCAACAGCACAACCTCTGCTCCACCAACGAGCAAACT 573
QY 284 SerThrValPheThrArgAlaAlaThrLeuGlnAlaMetAlaThrThrAlaValLeu 303
Db 574 TGTGCCCTACACAGCACAACCTCCACTCCACAGCAGCATATCTCTGCCCTTACA 633
QY 304 ThrThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThr-----Ile 320
Db 634 AGCAGCACAACCTCGCTCTTCAAGCAGCACAATCTCTGCTGCTAGCAGCAGCAATATC 693
QY 321 ProPheThrGluLysSerAsnLeuThrLeuAsnThrGlyAsnValThrAsnProThrAla 340
Db 694 TCTGCCCTTACACAGCACAACCTCTTCCCTTACAAACGAGCACAACCTCTGCTACTACA 753
QY 341 LeuSerMetSerAsnValGluSerThrMetAsnLysThrAlaSerTrpGluGlyArg 360
Db 754 ACCAGCACAACCTCTGCCCTTACAGCAGCACAACCTCCACTCCACAGCAGCAAAACC 813
QY 361 GluAlaSerProGlySerSerGlnGlySer 371
Db 814 TCAGCTGTCTACAGCAGCACAACCTCCGTTCT 846

RESULT 7
US-09-949-016-13892
; Sequence 13892, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13892
; LENGTH: 16562
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; TYPE: DNA
; ORGANISM: Human
US-09-949-016-13892

Alignment Scores:
Pred. No.: 0.000474 Length: 16562
Score: 157.00 Matches: 106
Percent Similarity: 33.97% Conservative: 55
Best Local Similarity: 22.36% Mismatches: 176
Query Match: 7.10% Indels: 137
DB: 4 Gaps: 21

US-10-735-014-83 (1-431) x US-09-949-016-13892 (1-16562)
QY 22 ArgLeuSerAlaSerGlnAsnCysLeuLysLysSerLeuGluAspValValIleAspIle 41
Db 6133 AGGGCTCCCATCTCCCGAGCTGCTTAGCTCTAGCTCTCCATGATAGCTCCAACCTCT 6192
QY 42 Gln-----SerSerLeuSerLysGlyIleArgGlyAsnGluProVal 55
Db 6193 GAAAGGGACCCCTTCTCTTCCAGCTCCCTTAGCTCTGGTGGCTGGCTCCCA----- 6246
QY 56 TyrThrSerThrGlnGluAspCysIleAsn-----Ser 66
Db 6247 ---CTCAGTTTCTGAGAGAGTTCTGCTTTTCCACCTAAACCTTCTTACTTCCACTCTCTTCACT 6303
QY 67 CysCysSerThrLysAsnIleSerGlyAspLysAla-----CysAsnLeuMetIle 83
Db 6304 GCGTGTAGCTAGTCAGGTCAGTGATTAACCTGTGTCAGCTCCCATTTGCTCTCAGAAC 6363
QY 84 PheAsp-----ThrArgLysThrAlaArgGln 92
Db 6364 AAAGACTAATCTTAATAAAGTTCCCTCTGAGTAGTCCCTAATCAAAAGGACCCCCAG 6423
QY 93 ProAsnCysTyrLeuPhePheCysProAsnGluGluAlaCysProLeuLysProAlaLys 112
Db 6424 CCCTCCATGTATAGTCAGTACTGT-----TCTTACCCTGTGAGCTCCCAT 6471
QY 113 GlyLeuMetSerTyrArgIleIleThrAspPheProSerLeu-----ThrArgAsnLeu 130
Db 6472 GGCCTC-----TATTCAATCTGGAGTGGCTCTCTCTCAGACAAACCCCAACTAC 6525
QY 131 ProSerGlnGluLeuProGlnGluAspSerLeuLeuHisGlyGlnPheSerGlnAlaVal 150
Db 6526 CCTAGCCATCGCTCCCTCCCTCAAGTCAA----- 6552
QY 151 ThrProLeuAlaHisHisHis-----ThrAspTyrSer---LysProThr-AspIle 166
Db 6553 -----AGATACCACCATTTCTCAGTTTCTGATTTCTCCACAAAACCCAGGAAGCCT 6603
QY 166 eserTrpArgAsp----- 170
Db 6604 CAGCTGAAGGGGCTGTGTAGTCCACCTGTGCTTATCTCTTCACTCAGTCTCTTCC 6663
QY 171 -----ThrLeuSerGlnLys-----PheGln 177
Db 6664 TGTGTGACCTCTTCTCAAAAGACTGCGGGTCCCAACCCCCAGATTTTCCCATTTTC 6723
QY 177 ySerSerAspHisLeuLysLeuPheLysMetAspGluAlaSerAlaGlnLeuAl 197
Db 6724 TCTGGGCTCTCATCTTGACCTTTTACATCAGAGTTCTTTTGGTTCTCTCCTCAACTTTAGG 6783
QY 197 aTyr-----LysGluLys-----GlyHis 204
Db 6784 TCAACAGGTCTAGTGTGTTGTACAGCCCTACAGAGAGACCATTTCTGTAGATCATTC 6843
QY 204 rGlnSer---SerGlnPheSerSerGlnGlnIleAlaHisLeuLeuProGluAsnVa 223
Db 6844 TTCCACAGGGGCTTATCTCTCAGAGATCTGTAATTTCTTCCCTCTCTTCCAGAAA 6903
QY 223 lSerAlaLeuProAlaThrValAlaValaLaserProHisThrThrSerAlaThrProly 243
Db 6904 TGAGGTAGTCTCTGCTACTGTGGCTCTTCCAGTGGTGGCTCCATCTGTTGACAAAGG 6963
```



```

1201 West Peachtree Street
CITY: Atlanta
STATE: Georgia
COUNTRY: USA
ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/241,581B
FILING DATE: 02-Feb-1999
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT6620
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404) 873-8794
TELEFAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 2032 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: misc. feature
LOCATION: 40..1926
OTHER INFORMATION: /Function = "Nucleotides 40 through
1926 encode the amino acid sequence
for the Drosophila Melanogaster
Scavenger Receptor Class CI."
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-241-581B-5
Alignment Scores:
Pred. No.: 9.8e-05 Length: 2032
Score: 148.00 Matches: 69
Percent Similarity: 36.03% Conservative: 37
Best Local Similarity: 23.47% Mismatches: 108
Query Match: 6.69% Indels: 80
DB: 3 Gaps: 9
US-10-735-014-83 (1-431) x US-09-241-581B-5 (1-2032)
QY 147 SerGlnAlaValThrProLeuAla-HisHisHisThrAspTyrSerLysProThrAsp11 166
Db 965 AGTGTGGCAACAAAGGATTATAGCACCACACAGACCAACGGCTCC-----GACAG 1015
QY 166 eSerTrpArgAspThrLeuSerGlnLysPheGlySerSerAspHisLeuGluLysLeuPh 186
Db 1016 GCAGCAACGACGACCAACCACTGGTCTACGATAT-----GATAAGTTGTT 1057
QY 186 eLysMetAspGluAlaSerAlaGlnLeuAlaTyrLysGluLysGlyHisSerGlnSe 206
Db 1058 CAGGTGCGATGCGGAACATCAATGTGGCCCTCCAAATATACCAACAACTGGTATAGTCATGG 1117
QY 206 rSer-----GlnPheSerSerAsp----- 212
Db 1118 GATGTGGATGTAATGACGAGTGCCTTCGGATGACACTTGTTCCTAACTATTGGAGG 1177
QY 213 -----GlnGluLeuAlaHis-LeuLeuProGluAsnValSerAlaLeuProAlaThrV 230
Db 1178 AGTGCAACAAAGGAGTGTCTCACCAGCAGGATGATATTAGTTCCTGCCCAACG 1237
QY 230 alAlaValAlaSerProHisThr-----ThrS 239
Db 1238 TCACATCAACAAAGCAACAGCACTACGAGGAGTCAACCAACAAACCAACCAACGACGA 1297

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239 erAlaThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyT 259
Db 1298 CTACTACAAGTACAACAACAACTAAAGGCGCAACCAACCAACCAACCAACCAACGCGCA 1357
QY 259 hrSerGlnProGlnLeuAlaThrThrAlaProProValThrThrValThrSerGlnProp 279
Db 1358 CAACTACAAAGCGAAACAAACCAACCACTTAAAGGCGCAACCAACCAACCAACCAACGCGCA 1417
QY 279 ioThrThrLeuLeuSerThrValPheThrArgAlaAlaThrLeuGlnAlaMetAlaT 299
Db 1418 CAACCAACAGCACTTCAACCAACCAAGTCTACAACTTCTTACAACTCTACAACTTCAA 1477
QY 299 hrThrAlaValLeuThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluT 319
Db 1478 CAACCAACAGCACTTCAACCAACCAAGTCTTGTTCACCAACCAAGGAA----- 1524
QY 319 hrLeuProPheThrGluLeuSerAsnLeuThrLeuAsnThrGlyAsnValTyrAsnProT 339
Db 1525 -----ACAACAATAATGATCCCTACTTCCAGTACCGCAACCAAGACTA 1564
QY 339 hrAlaLeuSerMetSerAsnValGluSerSerThrMetAsnLysThrAlaSerTTP----- 357
Db 1565 CAGGCATC-----ATCACCACCATGACGACGACGACGACGACGACGACGACGACGACG 1612
QY 358 -----GluGlyArgGluAlaSerProGlySerSerGlnGlySerV 372
Db 1613 TTGATCCTCAGGACATCGAGGTCACATGACACGACGAGCGGAAGTACCCCAATCCAGCTT 1672
QY 372 alProGluAsnGlnTyrGlyLeuProPheGluLysTrpLeuLeuLeuGlySerLeuLeuP 392
Db 1673 TAGTA----- 1677
QY 392 heGlyValLeuPheLeuValLeuGlyLeuValLeuLeu 404
Db 1678 -----GTACTTTACTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1710
RESULT 10
US-08-265-428-5
; Sequence 5, Application US/08265428
; Patent No. 6429289
; GENERAL INFORMATION:
; APPLICANT: Krieger, Monty
; TITLE OF INVENTION: Class BI Scavenger Receptors
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Patrea L. Pabst
; STREET: 1100 Peachtree Street, Suite 2800
; CITY: Atlanta
; STATE: Georgia
; COUNTRY: USA
; ZIP: 30309-4530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/265,428
; FILING DATE:
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Pabst, Patrea L.
; REGISTRATION NUMBER: 31,284
; REFERENCE/DOCKET NUMBER: MIT6620
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (404) 815-6508
; TELEFAX: (404) 815-6555
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2032 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double

```

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; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: misc. feature
; LOCATION: 40..1926
; OTHER INFORMATION: /Function = "Nucleotides 40 through 1926 encode the amino acid sequence"
US-08-265-428-5

Alignment Scores:
Pred. No.: 9.8e-05 Length: 2032
Score: 148.00 Matches: 69
Percent Similarity: 36.05% Conservative: 37
Best Local Similarity: 23.47% Mismatches: 108
Query Match: 6.69% Indels: 80
DB: 3 Gaps: 9

US-10-735-014-83 (1-431) x US-08-265-428-5 (1-2032)
Qy 147 SerGlnAlaValThrProLeuAla-HisHisHisThrAspTyrSerLysProThrAsp11 166
Db 965 AGTGGCACAACCGATTAGCACCACCAACCAACCGCTCC-----GACAG 1015
Qy 166 eSerTrpArgAspThrLeuSerGlnLysPheGlySerSerAspHisLeuGluLysLeuPh 186
Db 1016 GCAGCAACGAGCAACCACTGGTCTACGATAT-----GATAAGTTGTT 1057
Qy 186 eLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrLysGluLysGlyHisSerGlnSe 206
Db 1058 CAGGTGCGATCGGGAACATCAATGTGGCTCCCAATATAACCAACAAATGATATAGTCATGG 1117
Qy 206 rSer-----GlnPheSerSerAsp----- 212
Db 1118 GATGGGATGAATGACGAGTGCTTCGGATGAGACTTGTGCTAACTATTGAGG 1177
Qy 213 -----GlnGluLeuAlaHis-LeuLeuProGluAsnValSerAlaLeuProAlaThrV 230
Db 1178 AGTCACAAGAGGAGTGTCTACCAACGACGAGGATGATATTAGTTCCTGCCCAACGG 1237
Qy 230 alAlaValAlaSerProHisThr-----ThrS 239
Db 1238 TCACATCAACAAAGCAACGACACTACGAGGAAGTCAACAAACAAACCAACCAACGA 1297
Qy 239 eAlaThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyT 259
Db 1298 CTACTACAGTACACAACTAAAGGCCCAACCAACCAACCAACCAACCAACGAAGGCCA 1357
Qy 259 hrSerGlnProGlnLeuAlaThrThrAlaProProValThrValThrSerGlnProp 279
Db 1358 CAACTACAAAGCAACCAACCACTAAACCAACCAACCAACCAACCAACCAACGCGAAGC 1417
Qy 279 roThrThrLeuLeuSerThrValPheThrArgAlaAlaAlaThrLeuGlnAlaMetAlat 299
Db 1418 CAACCAACCAACCACTTCAACCAACCAACCAACCAACCAACCAACCAACCAACTTCAA 1477
Qy 299 hrThrAlaValLeuThrThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluT 319
Db 1478 CAACCAACCAACCAACCACTAATAATGTTGTTTACAAACAAAGAA----- 1524
Qy 319 hrIleProPheThrGluLeuSerAsnLeuThrLeuAsnThrGlyAsnValTyrAsnProt 339
Db 1525 -----ACAACAATAATGATCTCTTCCAGTACCGAAGAAAGACTA 1564
Qy 339 hrAlaLeuSerMetSerAsnValGluSerSerThrMetAsnLysThrAlaSerTrp---- 357
Db 1565 CAGGCATC-----ATCACCACTGAAGACACCAACGCGCATCTTGGAAACG 1612
Qy 358 -----GluGlyArgGluAlaSerProGlySerSerSerGlnGlySerV 372
Db 1613 TTGATCCTCAGGACATCGAGGGTCATGACGAGCGGGAAGTACCCCAATCCAGCTT 1672
Qy 372 alProGluAsnGlnTyrGlyLeuProPheGluLysTrpLeuLeuIleGlySerLeuLeup 392

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Db 1673 TAGTA-----1677
Qy 392 heGlyValLeuPheLeuValLeuGlyLeuValLeuLeu 404
Db 1678 -----GTACTTTACTCTACTCGCATTTCTTCTGGTG 1710

RESULT 11
PCT-US95-07721-5
; Sequence 5, Application PC/TUS9507721
; GENERAL INFORMATION:
; APPLICANT: Massachusetts Institute of Technology
; TITLE OF INVENTION: Class BI and CI Scavenger Receptors
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Patrea L. Pabst
; STREET: 2800 One Atlantic Center
; CITY: Atlanta
; STATE: Georgia
; COUNTRY: USA
; ZIP: 30309-3450
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/07721
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Pabst, Patrea L.
; REGISTRATION NUMBER: 31,284
; REFERENCE/DOCKET NUMBER: MIT6620
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (404) 873-8794
; TELEFAX: (404) 873-8795
; INFORMATION FOR SEQ ID NO: 5:
; LENGTH: 2032 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: misc. feature
; LOCATION: 40..1926
; OTHER INFORMATION: /Function = "Nucleotides 40 through 1926 encode the amino acid sequence"
; OTHER INFORMATION: for the Drosophila Melanogaster
; OTHER INFORMATION: Scavenger Receptor Class CI."
PCT-US95-07721-5

Alignment Scores:
Pred. No.: 9.8e-05 Length: 2032
Score: 148.00 Matches: 69
Percent Similarity: 36.05% Conservative: 37
Best Local Similarity: 23.47% Mismatches: 108
Query Match: 6.69% Indels: 80
DB: 5 Gaps: 9

US-10-735-014-83 (1-431) x PCT-US95-07721-5 (1-2032)
Qy 147 SerGlnAlaValThrProLeuAla-HisHisHisThrAspTyrSerLysProThrAsp11 166
Db 965 AGTGGCACAACCGATTAGCACCACCAACCAACCGCTCC-----GACAG 1015
Qy 166 eSerTrpArgAspThrLeuSerGlnLysPheGlySerSerAspHisLeuGluLysLeuPh 186
Db 1016 GCAGCAACGAGCAACCACTGGTCTACGATAT-----GATAAGTTGTT 1057

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QY 186 elysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrLysGluLysGlyHisSerGlnSe 206
Db 1058 CAGGTGATGCGGAACATCAATGTGCGCTTCAATATAACCAACAACTGTATAGTCATGG 1117
QY 206 rSer-----GlnPheSerSerAsp----- 212
Db 1118 GATGTGGATGTAATGACGAGTGCCTTCGATGAGACTTGTTCCTTAACACTATTTGGAGG 1177
QY 213 -----GlnGluLeuAlaHis-LeuLeuProGluAsnValSerAlaLeuProAlaThrV 230
Db 1178 AGTGCAAAAGGAGTGCTCACACGACGAGGATGATATTAGTTCCTGCCCAACGG 1237
QY 230 alalavalalaserProHisThr----- 239
Db 1238 TCACATCAACAAGCAAGCACTACGAGGAAGTCAACAACAACAACAACAAGCACGA 1297
QY 239 exAlaThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyT 259
Db 1298 CTACTACAAGTCAACAACAACCTTAAAGGCCCAACCAACCAACAACAACAAGGCCA 1357
QY 259 hrSerGlnProGlnLeuAlaThrAlaProProValThrThrValThrSerGlnProp 279
Db 1358 CAACTACAAGCGAACAACAACCACTTAAACCGACACAACTTCAACAACGCCGAAC 1417
QY 279 roThrThrLeuLeuSerThrValPheThrArgAlaAlaThrLeuGlnAlaMetAlaT 299
Db 1418 CAACAACAACGACTTCAACCAACCAAGTCTCAAACTTCTCAACGCTTCAAACTCAA 1477
QY 299 hrThrAlaValLeuThrThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluT 319
Db 1478 CAACACCAACGACAACAACCTACAATAATGTGTTTACAACAAGAAA----- 1524
QY 319 hrIleProPheThrGluIleSerAsnLeuLeuAsnThrGlyAsnValTyrAsnProT 339
Db 1525 -----ACACAAATAATGATCCCTACTTCCAGTACCGAAAAGACTA 1564
QY 339 hrAlaLeuSerMetSerAsnValGluSerSerThrMetAsnLysThrAlaSerTrp---- 357
Db 1565 CAGGCATC-----ATCACCACCATGAAGACACGCAAGCGCATCACTTGGAAAG 1612
QY 358 -----GluGlyArgGluAlaSerProGlySerSerSerGlnGlySerV 372
Db 1613 TTGATCCTCAGACATCGAGGTCAATGACACGAGCGGAAGTACCCCAATCCAGCTT 1672
QY 372 alProGluAsnGlnTyrGlyLeuProPheGluLysTrpLeuLeuIleGlySerLeuLeuP 392
Db 1673 TAGTA----- 1677
QY 392 heGlyValLeuPheLeuValIleGlyLeuValLeuLeu 404
Db 1678 -----GTACTTTACCTGCTACTCGCGATTGTTCTGTG 1710

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RESULT 12

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US-09-949-016-12147/c
; Sequence 12147, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12147

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; LENGTH: 767677
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(767677)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-12147

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Alignment Scores:

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Pred. No.: 5,74 Length: 767677
Score: 146.00 Matches: 81
Percent Similarity: 37.36% Conservative: 21
Best Local Similarity: 29.67% Mismatches: 120
Query Match: 6.60% Indels: 51
DB: 4 Gaps: 14

US-10-735-014-83 (1-431) x US-09-949-016-12147 (1-767677)

QY 88 LysThrAlaArgGlnProAsnCysTyr---LeuPhePheCysProAsnGluGluAlaCys 106
Db 753296 AAGGAAGCGCGTGGCCACCATGTACCCACACAGACACTGTGCGCCACAGCAGCATGC 753237
QY 107 ---ProLeuLysProAlaLysGlyLeuMetSerTyrArgIleIleThrAspPheProSer 125
Db 753236 ACCCCACACACCCCA-----CTATCACACACCCCAACCCACACAGCCACCA 753189
QY 126 LeuThrArgAsnLeuPro-SerGlnGluLeuProGlnGluAspSerLeuLeuHisGlyG1 145
Db 753188 CACACCCACAGCCACCCACAGCCATCACACCCCAACCCACACAGCCACCA 753129
QY 145 nPheSerGln-----AlaValThrProLeuAlaHis----- 155
Db 753128 CCAGCATCCCAACAGCCACCCACAGCCACCCCAACCCACACAGCCACCA 753069
QY 156 HisHisThrAspTyrSerLysProThrAspIleSerTrpArgAspThrLeuSerGlnly 175
Db 753068 GCACACACACCCCAACAGCCACCCACAGCCACCCCAACCCACACAGCCACCA 753009
QY 175 sPheGlySerSerAspHisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLe 195
Db 753008 CACAACCCACAGCCACCAACCAACCA----- 752984
QY 195 uLeuAlaTyrLysGluLysGlyHisSerGlnSerSerGlnPheSerSerAspGlnIu1 215
Db 752983 -----CACAGCCATCCATCCACCCACAGCCACCCACAGCCACCCCA 752946
QY 215 eAlaHisLeuLeuProGluAsnValSerAlaLeu-ProAlaThrVal---AlaValAlaS 234
Db 752945 CAGCCACACAGCCACCCCAACAGCCACCCATCCACAGCCACCAACCCACAGCCCA 752886
QY 234 erProHisThrThrSerAlaThrProLysProAlaThrLeuLeuProThrAsnAlaSerV 254
Db 752885 GCACGACCCCATGGGACCCACAGCCACCCCAACCCACAGCCACCCCAACCCCA 752829
QY 254 alThrProSerGlyThrSerGlnProGlnLeuAlaThrThrAlaProProValThr---- 272
Db 752828 TGCACCCCATGGGACCCACAGCCACCCCAACCCACAGCCACCCCAACCCCA 752772
QY 273 -----ThrValThrSerGlnProProThrThrLeuIleSerThrValPheThrArgAlaA 291
Db 752771 ACCCCACAGCCACCAACAAGCCACCCCAACCCCAACCCCAACCCCAACCCCA 752712
QY 291 laAlaThrLeuGlnAlaMetAlaThrAlaValLeuThrThrPheGlnAlaProT 311
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QY 311 hrAspSerLysGlySerLeuGluThrIle-ProPheThrGluIleSerAsnLeuThrLeu 330
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QY 331 Asn-----ThrGlyAsnValTyrAsnProThrAla 340

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; Sequence 17361, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17361
; LENGTH: 767677
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(767677)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-17361
Alignment Scores:
Pred. No.: 5.74 Length: 767677
Score: 146.00 Matches: 81
Percent Similarity: 37.36% Conservative: 21
Best Local Similarity: 29.67% Mismatches: 120
Query Match: 6.60% Indels: 51
DB: 4 Gaps: 14
US-10-735-014-83 (1-431) x US-09-949-016-17361 (1-767677)
Qy 88 LysThrAlaArgGlnProAsnCysTyr---LeuPhePheCysProAsnGluGluAlaCys 106
Db 753296 AAGGAAGCGCGTGGCCACCATGTATCCACAGACACTGTGCGAGCCACAGCCAGCATGC 753237
Qy 107 ---ProLeuLysProAlaLysGlyLeuMetSerTyrArgIleThrAspPheProSer 125
Db 753236 ACCCCACACACCCCA-----CTATCACACACCCACACACCCACAGCCACCA 753189
Qy 126 LeuThrArgAsnLeuPro-SerGlnGluLeuProGlnGluAspSerLeuLeuHisGlyG1 145
Db 753188 CACACCCACAGCCACCCACAGCCATCATCACACCCACAGCCACAGCCACAGCCCA 753129
Qy 145 nPheSerGln-----AlaValThrProLeuAlaHis----- 155
Db 753128 CCACGCATCCACAGCCACAGCCACCCACCCACCCACAGCCATCATCACACCCACAGG 753069
Qy 156 -HisHisThrAspTyrSerLysProThrAspIleSerTyrArgAspThrLeuSerGlnLy 175
Db 753068 GCACACACACACCCACAGCCACACACCCACAGCCACCCACAGCCACAGCCACCA 753009
Qy 175 sPheGlySerSerAspHisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLe 195
Db 753008 CACACCCACAGCCACACACACAC----- 752984
Qy 195 uLeuAlaTyrLysGluLysGlyHisSerGlnSerSerGlnPheSerSerGlnGluI1 215
Db 752983 -----CACAGCCACCATGTCACCCACAGCCACAGCCACAGCCCA 752946
Qy 215 eAlaHisLeuLeuProGluAsnValSerAlaLeu-ProAlaThrVal---AlaValAla 234
Db 752945 CAGCCACACAGCCACCCACAGCCAGCGCATCCACAGCCACAGCCACACACCCACAGCCCA 752886
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Qy 234 erProHisThrThrSerAlaThrProLysProAlaThrLeuLeuProThrAsnAlaSerV 254
Db 752885 GCAGGCACCCCATGGGACACACACCCACAGCCACACACCCACACACCCACCA---GCCAGCA 752829
Qy 254 alThrProSerGlyThrSerGlnProGlnLeuAlaThrThrAlaProProValThr---- 272
Db 752828 TGCACCCCATGGGACACACACCCACAGCCACCC---ACAGCCACACACACACCCACAGCCACGCG 752772
Qy 273 -----ThrValThrSerGlnProProThrThrThrLeuLeuSerThrValPheThrArgAlaA 291
Db 752771 ACCCCACAGCCACACACACACCCACAGCCACAGCCACACACCCACAGCCACAGCCCA 752712
Qy 291 laAlaThrLeuGlnAlaMetAlaThrThrAlaValLeuThrThrPheGlnAlaProT 311
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RESULT 14
US-09-370-838-158/c
; Sequence 158, Application US/09370838
; Patent No. 644425
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Mohamath, Roadoh
; APPLICANT: Secrist, Heather
; TITLE OF INVENTION: COMPOUNDS FOR THERAPY AND DIAGNOSIS OF
; LUNG CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.475C1
; CURRENT APPLICATION NUMBER: US/09/370,838
; CURRENT FILING DATE: 1999-08-09
; EARLIER APPLICATION NUMBER: US 09/285,323
; EARLIER FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 289
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 158
; LENGTH: 2114
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-370-838-158
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Pred. No.: 0.00019 Length: 2114
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Percent Similarity: 40.74% Conservative: 25
Best Local Similarity: 29.17% Mismatches: 66
Query Match: 6.58% Indels: 62
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Db 1963 ACCGCGCTTCCAGCACTGAGACAGCAGCCACAGCCACAGCCACAGCTTACAGCC 1904
Qy 243 LysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSerGlnPro 262
Db 1903 ATCCCTCTCTCTCTCTCTG-----GGCACCCTGGACC 1871
Qy 263 GlnLeuAlaThrThrAlaProProValThrThrVal-----ThrSerGln 277
Db 1870 CGCCTATCACAGACACACACCCACAGCCGCGCATGTCCACAGCCACACCCCTCTCTCACT 1811
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

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Run on: April 26, 2005, 23:55:07 ; Search time 644 Seconds
(without alignments)
4063.079 Million cell updates/sec

Title: US-10-735-014-83

Perfect score: 2211

Sequence: 1 MFPGEGSLTYLVICFLT.....LRRKYSRLDYLINGIYVDI 431

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Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 5633728 seqs, 3035525691 residues

Total number of hits satisfying chosen parameters: 11267456

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-DB=Published Applications_NA_QPWT-fastap -SUFFIX=rnpb -MINMATCH=0.1
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-TRANS=human40.cdi -LIST=45 -DOCLALIGN=200 -THR SCORE=pct -THR MAX=100
-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0
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-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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3	2211	100.0	2284	9	US-09-989-723-514
4	2211	100.0	2284	9	US-09-989-729-514
5	2211	100.0	2284	9	US-09-989-727-514
6	2211	100.0	2284	9	US-09-944-449-82
7	2211	100.0	2284	9	US-09-989-731-514
8	2211	100.0	2284	9	US-09-944-457-82
9	2211	100.0	2284	9	US-09-989-732-514
10	2211	100.0	2284	9	US-09-991-073-514
11	2211	100.0	2284	9	US-09-945-587-82
12	2211	100.0	2284	9	US-09-990-442-514
13	2211	100.0	2284	9	US-09-991-163-514
14	2211	100.0	2284	9	US-09-945-015-82
15	2211	100.0	2284	9	US-09-944-396-82
16	2211	100.0	2284	9	US-09-993-604-514
17	2211	100.0	2284	9	US-09-990-456-514
18	2211	100.0	2284	9	US-09-944-432-82
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38	2211	100.0	2284	10	US-09-997-653-514
39	2211	100.0	2284	10	US-09-989-728-514
40	2211	100.0	2284	10	US-09-989-728-514
41	2211	100.0	2284	10	US-09-990-441-514
42	2211	100.0	2284	10	US-09-993-667-514
43	2211	100.0	2284	10	US-09-997-428-514
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45	2211	100.0	2284	10	US-09-990-438-514

ALIGNMENTS

RESULT 1
US-09-866-028-82
; Sequence 82, Application US/09866028
; Patent No. US20020058309A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel

APPLICANT: Wood,William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2549P1C1
; CURRENT APPLICATION NUMBER: US/09/866,028
; CURRENT FILING DATE: 2001-05-25
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 82
; LENGTH: 2284
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-866-028-82

Alignment Scores:
Pred. NO.: 1,47e-211 Length: 2284
Score: 2211.00 Matches: 431
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-10-735-014-83 (1-431) x US-09-866-028-82 (1-2284)

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Db 226 ATGTTCTTCGGGGAGAGGAGCTTGCATTACACTTTGGTAATAATTGCTTCCTGACA 285
Qy 21 LeuArgLeuSerAlaSerGlnAsnCysLeuLysLysSerLeuGluAspValIleAsp 40
Db 286 CTAAGGCTGTCTGCTAGTGCAGAAATGGCTCAAAAGAGTCTAGAAGATGTTGTCAATTGAC 345
Qy 41 IledGlnSerSerLeuSerLysGlyLeuArgGlyAsnGluProValThrThrSerThrGln 60
Db 346 ATCCAGTCACTCTCTTCTTAAGGGAAATCAGAGGCAATGAGCCGCTATATATCTTCAACTCAA 405
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Qy 81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysTyrLeuPhePheCys 100
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Qy 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer 140
Db 586 ACAGATTTTCCATCTTTGACCAAGAAATTTGCCAAGCCAGAGTTACCCAGGAAGATTCT 645
Qy 141 LeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAlaHisHisThrAspTyr 160
Db 646 CTCCTTACATGCCAAATTTTCAAGCAGTCACTCCCTAGGCCCATCATCACAGATTAT 705
Qy 161 SerLysProThrAspIleSerTyrArgAspThrLeuSerGlnLysPheGlySerSerAsp 180
Db 706 TCAAAGCCCCCGGATATCTCATGTAGAGACACACTTTCTCAGAAGTTGGATCCTCAGAT 765
Qy 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrLysGlu 200
Db 766 CACTGGGAAACTATTTAAGATGGATGAAGCAAGTGCACAGCTCTCTTATAAGGAA 825
Qy 201 LysGlyHisSerGlnSerSerGlnPheSerSerAspGlnGluIleAlaHisLeuLeuPro 220
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Qy 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260

Db 946 ACTCCAAAGCCGCCACCTTCTACCCACCAATGCTTCACTGACACCTTCTGGACTCC 1005
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Db 1006 CAGCCACAGCTGCCACACAGCTCCACCTGTAAACCACTCTCTCAGCTTCCACG 1065
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Qy 301 AlaValLeuThrThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
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RESULT 2

US-09-989-722-514
; Sequence 514, Application US/09989722
; Patent No. US20020072067A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kijavini, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730F1C63
; CURRENT APPLICATION NUMBER: US/09/989,722
; CURRENT FILING DATE: 2001-11-19

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 ; PRIOR APPLICATION NUMBER: 60/091978
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 ; PRIOR APPLICATION NUMBER: 60/091982
 ; PRIOR FILING DATE: 1998-07-07
 ; PRIOR APPLICATION NUMBER: 60/092182
 ; PRIOR FILING DATE: 1998-07-09

Alignment Scores:

Pred. No.: 1,47e-211 Length: 2284
 Score: 2211.00 Matches: 431
 Percent Similarity: 100.00% Conservativeness: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 9 Gaps: 0

US-10-735-014-83 (1-431) x US-09-989-722-514 (1-2284)

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 Db 226 ATGTTCTTCGGGGGAGAGGAGCTGACTTACACTTTGGTAATAATTTGCTTCTGACA 285
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 Db 286 CTAGGCTGTCTGCTAGTACAGANTTGCTCAAAAGAGCTAGAGAGTTGTCTATTGAC 345
 QY 41 IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValThrThrThrGln 60
 Db 346 ATCCAGTCTATCTTTCTAAGGAATCAGAGCAATCAGCCCGTATATCTTCAACTCAA 405
 QY 61 GluAspCysIleAsnSerCysCysSerThrLysAsnIleSerGlyAspLysAlaCysAsn 80
 Db 406 GAAGACTGCATTAATTTCTTGCTGTTCACAAAAAACATATCAGGGGACAAAGCATGTAAC 465
 QY 81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysTyrLeuPhePheCys 100
 Db 466 TTGATGATCTTCGACACTCGAAAAACAGCTAGACACCCAACTGCTACTATTTTCTGT 525
 QY 101 ProAsnGluAlaCysProLeuLysProAlaLysGlyLeuMetSerTyrArgIleIle 120
 Db 526 CCCAACAGGAGAGCTGTCCATTGAACCCAGAAAGGACTTATGAGTTACAGATTAAT 585
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 Db 586 ACAGATTTCCTCTTTGACAGAGAAATTTGCAAGCCAAAGAGTTACCCAGAGAGATTCT 645
 QY 141 LeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAlaHisHisThrAspTyr 160
 Db 646 CTCTTACATGCCCAATTTTCACAGAGCTACTCCCTAGGCCATCATCACAGATTAT 705
 QY 161 SerLysProThrAspIleSerTyrArgAspThrLeuSerGlnLysPheGlySerSerAsp 180
 Db 706 TCAAAGCCCAACCGATATCTCATGGAGACACACTTTCTCAGAAGTTGGGATCCTCAGAT 765
 QY 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrLysGlu 200
 Db 766 CACCTGGAGAAACTATTTTAAGATGATGAAGCAAGTGCCCAAGCTCCTTGCTTATAAGAA 825

QY 201 LysGlyHisSerGlnSerSerGlnPheSerSerAspGlnGluIleAlaHisLeuLeuPro 220
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 QY 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrThrSerAla 240
 Db 886 GAAAATGTGAGTGGCTCCAGCTACGGTGGCAGTTCCTCCACATACACCTCGCT 945
 QY 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260
 Db 946 ACTCCAAAGCCGCCACCTTACCCACCAATGCTTCAGTGACACCTTCTGGGACTTCC 1005
 QY 261 GlnProGlnLeuAlaThrThrAlaProProValThrThrValThrSerGlnProProThr 280
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 QY 301 AlaValLeuThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
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 QY 321 ProPheThrGluIleSerAsnLeuThrLeuAsnThrGlyAsnValTyrAsnProThrAla 340
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 Db 1246 CTTTCTATGTCAAAATGTGGAGTCTTCCACTATGATAAAACTGCTTCTCGGAAGGTAGG 1305
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 Db 1426 CTCGTCTCTCTGGGTAGAATCTTTCGGAATCACTCCGAGGAAACGTTACTCAAGACTG 1485
 QY 421 AspTyrIleLeuLeuGlyIleTyrValAspIle 431
 Db 1486 GATTATTGATCAATGGATCTATGTGGACATC 1518

RESULT 3

US-09-989-723-514
 ; Sequence 514, Application US/09989723
 ; Patent No. US20020072092A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi J.
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gottard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, J. Christopher
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Kljavin, Ivar J.
 ; APPLICANT: Napier, Mary A.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas P.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel

APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730PIC62
CURRENT APPLICATION NUMBER: US/09/989,723
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
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 ; PRIOR APPLICATION NUMBER: 60/091978
 ; PRIOR FILING DATE: 1998-07-07
 ; PRIOR APPLICATION NUMBER: 60/091982
 ; PRIOR FILING DATE: 1998-07-07
 ; PRIOR APPLICATION NUMBER: 60/092182
 ; PRIOR FILING DATE: 1998-07-09

Alignment Scores:

Pred. No.: 1,47e-211 Length: 2284
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 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 9 Gaps: 0

US-10-735-014-83 (1-431) x US-09-989-723-514 (1-2284)

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 Db 286 CTAAGGCTGTCTGTAGTCAGAAATTCCTCAAAAAGAGCTAGAGAAGATGTTGTCAATTGAC 345
 Qy 41 IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValTyrThrSerThrGln 60
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 Db 1366 TTTGAAAAATGGCTTCTTATCGGGTCCCTGCTCTTTGGTGTCTGTCTCTGGTGATAGGC 1425
 Qy 401 LeuValLeuLeuGlyArgIleLeuSerGluSerLeuArgArgLysArgTyrSerArgLeu 420
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 Qy 421 AspTyrLeuLeuAsnGlyIleTyrValAspIle 431
 Db 1486 GATTATTGATCAATGGATCTATGTGGACATC 1518

RESULT 4

US-09-989-279-514
 ; Sequence 514, Application US/09989279
 ; Patent No. US20020072496A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi J.
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Baton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC56
CURRENT APPLICATION NUMBER: US/09/989,279
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
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RESULT 5

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 ; Sequence 514, Application US/09989727
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 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi J.
 ; APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David
 APPLICANT: Desnoyers, Luc
 APPLICANT: Eaton, Dan L.
 APPLICANT: Ferrara, Napoleone
 APPLICANT: Fong, Sherman
 APPLICANT: Gerber, Hanspeter
 APPLICANT: Gerritsen, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Grimaldi, J. Christopher
 APPLICANT: Gurney, Austin L.
 APPLICANT: Klijavin, Ivar J.
 APPLICANT: Napier, Mary A.
 APPLICANT: Pan, James
 APPLICANT: Paoni, Nicholas F.
 APPLICANT: Roy, Margaret Ann
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Watanabe, Colin K.
 APPLICANT: Williams, P. Mickey
 APPLICANT: Wood, William I.
 APPLICANT: Zhang, Zemin
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Db 1486 GATTATTTCATCATGGGATCTATGTGGACATC 1518

RESULT 6

US-09-944-449-82

Sequence 82, Application US/09944449

Patent No. US20020102647A1

GENERAL INFORMATION:

APPLICANT: Baker, Kevin

APPLICANT: Botstein, David

APPLICANT: Eaton, Dan

APPLICANT: Ferrara, Napoleone

APPLICANT: Filvaroff, Ellen

APPLICANT: Gerritsen, Mary

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul

APPLICANT: Grimaldi, Christopher

APPLICANT: Gurney, Austin

APPLICANT: Hillan, Kenneth

APPLICANT: Kljavin, Ivar

APPLICANT: Napier, Mary

APPLICANT: Roy, Margaret

APPLICANT: Tuma, Daniel

APPLICANT: Wood, William

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

FILE REFERENCE: P2548P1C1

CURRENT APPLICATION NUMBER: US/09/944,449

CURRENT FILING DATE: 2001-09-26

PRIOR APPLICATION NUMBER: 09/866,028

PRIOR FILING DATE: 2001-05-25

PRIOR APPLICATION NUMBER: 60/067,411

PRIOR FILING DATE: December 3, 1997

PRIOR APPLICATION NUMBER: 60/069,334

PRIOR FILING DATE: December 11, 1997

PRIOR APPLICATION NUMBER: 60/069,335

PRIOR FILING DATE: December 11, 1997

PRIOR APPLICATION NUMBER: 60/069,278

PRIOR FILING DATE: December 11, 1997

PRIOR APPLICATION NUMBER: 60/069,425

PRIOR FILING DATE: December 12, 1997

PRIOR APPLICATION NUMBER: 60/069,696

PRIOR FILING DATE: December 15, 1997

PRIOR APPLICATION NUMBER: 60/069,694

PRIOR FILING DATE: December 16, 1997

PRIOR APPLICATION NUMBER: 60/069,702

PRIOR FILING DATE: December 15, 1997

PRIOR APPLICATION NUMBER: 60/069,870

PRIOR FILING DATE: December 17, 1997

PRIOR APPLICATION NUMBER: 60/069,873

PRIOR FILING DATE: December 17, 1997

PRIOR APPLICATION NUMBER: 60/068,017

PRIOR FILING DATE: December 18, 1997

PRIOR APPLICATION NUMBER: 60/070,440

PRIOR FILING DATE: January 5, 1998

PRIOR APPLICATION NUMBER: 60/074,086

PRIOR FILING DATE: February 9, 1998

PRIOR APPLICATION NUMBER: 60/074,092

PRIOR FILING DATE: February 9, 1998

PRIOR APPLICATION NUMBER: 60/075,945

PRIOR FILING DATE: February 25, 1998

PRIOR APPLICATION NUMBER: 60/112,850

PRIOR FILING DATE: December 16, 1998

PRIOR APPLICATION NUMBER: 60/113,296

PRIOR FILING DATE: December 22, 1998

PRIOR APPLICATION NUMBER: 60/146,222

PRIOR FILING DATE: July 28, 1999

PRIOR APPLICATION NUMBER: PCT/US98/19330

PRIOR FILING DATE: September 16, 1998

PRIOR APPLICATION NUMBER: PCT/US98/25108

PRIOR FILING DATE: December 1, 1998

PRIOR APPLICATION NUMBER: 09/216,021

PRIOR FILING DATE: December 16, 1998

PRIOR APPLICATION NUMBER: 09/218,517

PRIOR FILING DATE: December 22, 1998

PRIOR APPLICATION NUMBER: 09/254,311

PRIOR FILING DATE: March 3, 1999

PRIOR APPLICATION NUMBER: PCT/US99/12252

PRIOR FILING DATE: June 22, 1999

PRIOR APPLICATION NUMBER: PCT/US99/21090

PRIOR FILING DATE: September 15, 1999

PRIOR APPLICATION NUMBER: PCT/US99/28409

PRIOR FILING DATE: No. US20020102647A1ember 30, 1999

PRIOR APPLICATION NUMBER: PCT/US99/28313

PRIOR FILING DATE: No. US20020102647A1ember 30, 1999

PRIOR APPLICATION NUMBER: PCT/US99/28301

PRIOR FILING DATE: December 1, 1999

PRIOR APPLICATION NUMBER: PCT/US99/30095

PRIOR FILING DATE: December 16, 1999

PRIOR APPLICATION NUMBER: PCT/US00/03565

PRIOR FILING DATE: February 11, 2000

PRIOR APPLICATION NUMBER: PCT/US00/04414

PRIOR FILING DATE: February 22, 2000

PRIOR APPLICATION NUMBER: PCT/US00/05841

PRIOR FILING DATE: March 2, 2000

PRIOR APPLICATION NUMBER: PCT/US00/08439

PRIOR FILING DATE: March 30, 2000

PRIOR APPLICATION NUMBER: PCT/US00/14042

PRIOR FILING DATE: May 22, 2000

PRIOR APPLICATION NUMBER: PCT/US00/20710

PRIOR FILING DATE: July 28, 2000

PRIOR APPLICATION NUMBER: PCT/US00/32678

PRIOR FILING DATE: December 1, 2000

PRIOR APPLICATION NUMBER: PCT/US01/06520

PRIOR FILING DATE: February 28, 2001

NUMBER OF SEQ ID NOS: 120

SEQ ID NO 82

LENGTH: 2284

TYPE: DNA

ORGANISM: Homo Sapien

US-09-944-449-82

Alignment Scores:

Pred. No.:	1.47e-211	Length:	2284
Score:	2211.00	Matches:	431
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	9	Gaps:	0

US-10-735-014-83 (1-431) x US-09-944-449-82 (1-2284)

QY 1 MetPheGlyGlyGlySerLeuThrTyThrLeuValIleCysPheLeuThr 20

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QY 21 LeuArgLeuSerAlaSerGlnAsnCysLeuLysSerLeuGluAspValIleApp 40

Db 286 CTAAGGCTGTCTGTAGTACAGAAATTCCTCAAAAAGAGTCTAGAGATGTTGCTCATGAC 345

QY 41 IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValTyThrSerThrGln 60

Db 346 ATCCAGTCATCTCTTCTTAAGGGAATCAGAGCAATGAGCCGATATATATCTCAACTCAA 405

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Db 406 GAAGACTGCATTAAATTTCTTCTTCAACAAAAACATATCAGGGGACAAAGCATGTAAC 465

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QY 161 SerLysProThrAspIleSerTrpArgAspThrLeuSerGlnLysPheGlySerSerAsp 180
Db 706 TCAAGCCACCCGATATCTCATGGAGACACACTTCTCAGAAGTTTGGATCTTCAGAT 765
QY 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrLysGlu 200
Db 766 CACCTGGAGAATCTTTAAGATGATGAACCAAGTGCCACAGCTCCCTTGTCTTAAGGAA 825
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QY 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrThrSerAla 240
Db 886 GAAATGTGATGGCTCCAGCTACGGTGGCAGTTGCTTCTCCACATACCACTCCGCT 945
QY 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260
Db 946 ACTCCAAAGCCCGCCACCTTCTACCCACCAATGCTTCAGTGACACCTTCTGGGACTTCC 1005
QY 261 GlnProGlnLeuAlaThrThrAlaProProValThrThrValThrSerGlnProProThr 280
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Db 1066 ACCCTCATTTCTACAGTTTTCACGGCTCGGCTACCTCCAAAGCAATGGCTACAA 1125
QY 301 AlaValLeuThrThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
Db 1126 CGAGTTCTGACTACCACTTTCAGGCACCTACGAGCTCGAAAGGACGCTTAGAAACCAT 1185
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QY 421 AspTyrLeuIleAsnGlyIleTyrValAspIle 431
Db 1486 GATTATTGTCAATGGGATCTATGTGCATC 1518

RESULT 7

US-09-989-731-514
; Sequence 514, Application US/09989731
; Patent No. US20020103125A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone
; APPLICANT: Rong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerriksen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730P1C70
; CURRENT APPLICATION NUMBER: US/09/989, 731
; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
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; PRIOR APPLICATION NUMBER: 60/089600
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; PRIOR APPLICATION NUMBER: 60/089653
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089907
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089908
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; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/089948
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/089952
; PRIOR FILING DATE: 1998-06-19
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; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090252
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090254
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090349
; PRIOR FILING DATE: 1998-06-23
; PRIOR APPLICATION NUMBER: 60/090355
; PRIOR FILING DATE: 1998-06-23
; PRIOR APPLICATION NUMBER: 60/090429
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090431
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090435
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090444
; PRIOR FILING DATE: 1998-06-24

; PRIOR APPLICATION NUMBER: 60/090445
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090472
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090535
; PRIOR FILING DATE: 1998-06-24
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US-10-735-014-83 (1-431) x US-09-989-731-514 (1-2284)

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; GENERAL INFORMATION:			
; APPLICANT: Ashkenazi, Avi J.			
; APPLICANT: Baker, Kevin P.			
; APPLICANT: Botstein, David			
; APPLICANT: Desnovers, Luc			
; APPLICANT: Eaton, Dan L.			
; APPLICANT: Ferrara, Napoleone			
; APPLICANT: Fong, Sherman			
; APPLICANT: Gerber, Hanspeter			

APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730P1C57
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US-10-735-014-83 (1-431) x US-09-989-732-514 (1-2284)

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GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Deonoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
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APPLICANT: Paoni, Nicholas F.
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APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC15
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CURRENT FILING DATE: 2001-11-14
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PRIOR FILING DATE: 1998-06-24

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; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

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Alignment Scores:

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Pred. No.: 1,478-211 Length: 2284
Score: 2211.00 Matches: 431
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

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US-10-735-014-83 (1-431) x US-09-991-073-514 (1-2284)

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Db 286 CTAAAGCTGCTGCTAGTCAGAAATTCCTCAAAAGAGCTAGAGAGTTGTCATTGAC 345
Qy 41 IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValThrSerThrGln 60

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Db 346 ATCCAGTCATCTCTTTCTTAAGGGAATCAGAGCAATGAGCCGTTATATATCTCAACTCA 405
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Db 406 GAAGACTGCATTAATCTTCTGTTTCACAAAAACATATCAGGGGACAAAGCATGTAAAC 465
Qy 81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysTyrLeuPhePheCys 100
Db 466 TTGATGATCTTTCGACACTCGAAAAACAGCTAGAACCAACCACTGCTACCTATTTTCTGT 525
Qy 101 ProAsnGluGluAlaCysProLeuLysProAlaLysGlyLysMetSerTyrArgIleIle 120
Db 526 CCCAACGAGGAGCCTGTCATTTGAACCCAGCAAAAGGACTTATGAGTTACAGGATAAT 585
Qy 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer 140
Db 586 ACAGATTTTCCATCTTTGACCAGAAATTTGCCAAGCAAGAGTTACCCAGGAAGATTCT 645
Qy 141 LeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAlaHisHisThrAspTyr 160
Db 646 CTCTTACATGGCCAAATTTTCAACAGCAGTCACTCCCTTAGCCCATCATCACAGATTAT 705
Qy 161 SerLysProThrAspIleSerTrpArgAspThrLeuSerGlnLysPheGlySerSerAsp 180
Db 706 TCAAAAGCCACCGATATCTCATGGAGAGACACACTTTCTCAGAAGTTTGGATCCTCAGAT 765
Qy 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrLysGlu 200
Db 766 CACCTGGAGAAACTATTTAAGATGATGAAGCAAGTGGCCAGCTCTTGTCTTATAAGAA 825
Qy 201 LysGlyHisSerGlnSerSerGlnPheSerAspGlnGluIleAlaHisLeuLeuPro 220
Db 826 AAAGGCCATCTCAGAGTTCAATTTCTCTGATCAAGAAATAGCTCATCTGTGCTCCT 885
Qy 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrSerAla 240
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Qy 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260
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Qy 261 GlnProGlnLeuAlaThrThrAlaProProValThrThrValThrSerGlnProThr 280
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Qy 301 AlaValLeuThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
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RESULT 11

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; Sequence 82, Application US/09945587
; Patent No. US20020127643A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/945,587
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
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; PRIOR FILING DATE: December 3, 1997
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; PRIOR FILING DATE: December 1, 1998

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RESULT 12

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; Sequence 514, Application US/09990442
; Patent No. US20020132252A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.

; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC8
; CURRENT APPLICATION NUMBER: US/09/990,442
; CURRENT FILING DATE: 2001-11-14
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9 PRIOR APPLICATION NUMBER: 60/088734
10 PRIOR FILING DATE: 1998-06-10
11 PRIOR APPLICATION NUMBER: 60/088738
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14 PRIOR FILING DATE: 1998-06-10
15 PRIOR APPLICATION NUMBER: 60/088810
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22 PRIOR FILING DATE: 1998-06-11
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26 PRIOR FILING DATE: 1998-06-11
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33 PRIOR FILING DATE: 1998-07-01
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42 PRIOR APPLICATION NUMBER: 60/091633
43 PRIOR FILING DATE: 1998-07-02
44 PRIOR APPLICATION NUMBER: 60/091978
45 PRIOR FILING DATE: 1998-07-07
46 PRIOR APPLICATION NUMBER: 60/091982
47 PRIOR FILING DATE: 1998-07-07
48 PRIOR APPLICATION NUMBER: 60/092182
49 PRIOR FILING DATE: 1998-07-09

Alignment Scores:

Pred. No.:	1,47e-211	Length:	2284
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Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	9	Gaps:	0

US-10-735-014-83 (1-431) x US-09-990-442-514 (1-2284)

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Db	226	ATGTTCTTCGGGGGAGAGGAGCTGACATTGCTTAATAATTTCTTCCTGACA	285
Qy	21	LeuArgLeuSerAlaSerGlnAsnCysLeuLysSerLeuGluAspValIleAsp	40
Db	286	CTAAGGCTGTCTGTAGTCAGAAATGCCTCAAAAGAGTCTAGAAGATGTTGTCATTGAC	345
Qy	41	IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValTyrThrSerThrGln	60
Db	346	ATCCAGTCATCTCTTTCTAAGGGAATCAGAGGCAATGAGCCCGTATATATTCTCACTCAA	405
Qy	61	GluAspCysIleAsnSerCysSerThrLysAsnIleSerGlyAspLysAlaCysAsn	80

Db 406 GAAGACTGCATTAAATCTTGGCTGTTCAACAAAAACATATCAGGGACAAAGCATGTAAAC 465
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Db 466 TTGATGATCTTCGACACTCGAAAAACAGCTAGACAACCACTGCTACCTATTTTCTGT 525
QY 101 ProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeuMetSerTyrArgIlelle 120
Db 526 CCCAACGAGGAGCCCTGCTCATTTGAACCAAGCAAGAGGACTTATGAGTTACAGGATAAT 585
QY 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer 140
Db 586 ACAGATTTTCCATCTTTGACCAAGAAATTTGCCAAGCAAGAGTATCCCCAGGAAGATTC 645
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Db 646 CTCTTACATGGCCAAATTTTCAAGCAGTCACCTCCCTAGCCATCATCACACAGATTAT 705
QY 161 SerLysProThrAspIleSerTrpArgAspThrLeuSerGlnLysPheGlySerSerAsp 180
Db 706 TCAAGCCCAACCGATATCTCATGGAGAGACACACTTTCTCAGAAGTTTGGATCCTCAGAT 765
QY 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrLysGlu 200
Db 766 CACCTGGAGAAACTATTTAAGATGGATGAAGCAAGTGCCTCTCTCTTATTAAGGAA 825
QY 201 LysGlyHisSerGlnSerGlnPheSerAspGlnGluIleAlaHisLeuLeuPro 220
Db 826 AAAGGCCATCTCAGAGTTCACAATTTCTCTGATCAAGAAATAGTCATCTGTGCT 885
QY 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrThrSerAla 240
Db 886 GAAATGTGAGTGGCTCCAGCTACGGTGGCAGTTGCTTCTCCACATACCACCTCGGT 945
QY 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260
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QY 261 GlnProGlnLeuAlaThrAlaProValThrValThrValThrSerGlnProProThr 280
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Db 1066 ACCCTCATTTCTACAGTTTTTACACGGCTGGGCTACACTCCAAGCAATGCTCAACA 1125
QY 301 AlaValLeuThrThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
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QY 321 ProPheThrGluIleSerAsnLeuThrLeuAsnThrGlyAsnValTyrAsnProThrAla 340
Db 1186 CCGTTTACAGAAATCTCCAACTTAACCTTTGAACACAGGAAATGTGTATTAACCTTACTG 1245
QY 341 LeuSerMetSerAsnValGluSerSerThrMetAsnLysThrAlaSerTrpGluGlyArg 360
Db 1246 CTTTCTATGCTCAATGTGGAGTCTTCCACTATGAATAAACTGCTTCTGGGAGGTAGG 1305
QY 361 GluAlaSerProGlySerSerSerGlnGlySerValProGluAsnGlnTyrGlyLeuPro 380
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Db 1366 TTGAAAAATGGCTTCTATCGGGTCCCTGCTCTTTGGTGTCTGTCTCTGTGTATAGGC 1425
QY 401 LeuValLeuLeuGlyArgIleLeuSerGluSerLeuArgArgLysArgTyrSerArgLeu 420
Db 1426 CTCGTCTCTGGTGAATTCCTTCGGATCTACTCCGAGGAACGTTACTCAAGACTG 1485
QY 421 AspTyrLeuIleAsnGlyIleTyrValAspIle 431

Db 1486 GATTATTGATCAATGGGATCTATGTGGACATC 1518
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US-09-991-163-514
; Sequence 514, Application US/09991163
; Patent No. US20020132253A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C17
; CURRENT APPLICATION NUMBER: US/09/991,163
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
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; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

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Score: 2211.00 Matches: 431
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-10-735-014-83 (1-431) x US-09-991-163-514 (1-2284)

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Db 226 ATGTCTTCGGGGAGAGGAGCTTGACTTACCTTGGTAATAATTTCTCTCTGACA 285

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QY 41 IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValThrThrSerThrGln 60
DB 346 ATCCAGTCATCTCTTCTAAGGGAATCAGAGGCAATGAGCCCGTATATATCTTCAACTCAA 405
QY 61 GluAspCysIleAsnSerCysSerThrLysAsnIleSerGlyAspLysAlaCysAsn 80
DB 406 GAAGACTGCATTAATTTCTGCTGTTCAACAAAAACATATCAGGGACAAAGCATGTAC 465
QY 81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysTyrLeuPhePheCys 100
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QY 101 ProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeuMetSerTyrArgIleIle 120
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QY 161 SerLysProThrAspIleSerTrpArgAspThrLeuSerGlnLysPheGlySerSerAsp 180
DB 706 TCAAGCCCAACCGATATCTATGAGAGACACACTTTCTCAGAAGTTTGGATCCCTCAGAT 765
QY 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrLysGlu 200
DB 766 CACCTGGAGAACTATTTAAGATGGATGAAGCAGTCCCGCTCTCTTATTAAGAA 825
QY 201 LysGlyHisSerGlnSerGlnPheSerAspGlnGluIleAlaHisLeuLeuPro 220
DB 826 AAAGGCCATCTCAGAGTTTCAAAATTTCTCTGTATCAAGAAATAGCTCATCTGCTGCT 885
QY 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrThrSerAla 240
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QY 361 GluAlaSerProGlySerSerGlnGlySerValProGluAsnGlnTyrGlyLeuPro 380
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DB 1426 CTCGCTCTCTCGGTAGAAATCTTTTCGGAATCACTCCGAGGAAACGTTACTCAAGACTG 1485
QY 421 AspTyrLeuIleAsnGlyIleTyrValAspIle 431
DB 1486 GATTATTGATCAATGGGATCTATGTGGACATC 1518

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US-09-945-015-82

; Sequence 82, Application US/09945015

; Patent No. US20020132768A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin

; APPLICANT: Botstein, David

; APPLICANT: Eaton, Dan

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gerritsen, Mary

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul

; APPLICANT: Grimaldi, Christopher

; APPLICANT: Gurney, Austin

; APPLICANT: Hillan, Kenneth

; APPLICANT: Kljavin, Ivar

; APPLICANT: Napier, Mary

; APPLICANT: Roy, Margaret

; APPLICANT: Tumas, Daniel

; APPLICANT: Wood, William

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; FILE REFERENCE: P2548P1C1

; CURRENT APPLICATION NUMBER: US/09/945,015

; CURRENT FILING DATE: 2001-09-26

; PRIOR APPLICATION NUMBER: 09/866,028

; PRIOR FILING DATE: 2001-05-25

; PRIOR APPLICATION NUMBER: 60/067,411

; PRIOR FILING DATE: December 3, 1997

; PRIOR APPLICATION NUMBER: 60/069,334

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,335

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,278

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,425

; PRIOR FILING DATE: December 12, 1997

; PRIOR APPLICATION NUMBER: 60/069,696

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,696

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,694

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,702

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,870

; PRIOR FILING DATE: December 17, 1997

; PRIOR APPLICATION NUMBER: 60/069,873

; PRIOR FILING DATE: December 17, 1997

; PRIOR APPLICATION NUMBER: 60/068,017

; PRIOR FILING DATE: December 18, 1997

; PRIOR APPLICATION NUMBER: 60/070,440

; PRIOR FILING DATE: January 5, 1998

; PRIOR APPLICATION NUMBER: 60/074,086

; PRIOR FILING DATE: February 9, 1998

; PRIOR APPLICATION NUMBER: 60/074,092

; PRIOR FILING DATE: February 9, 1998

; PRIOR APPLICATION NUMBER: 60/075,945

; PRIOR FILING DATE: February 25, 1998

; PRIOR APPLICATION NUMBER: 60/112,850

; PRIOR FILING DATE: December 16, 1998

; PRIOR APPLICATION NUMBER: 60/113,296

; PRIOR FILING DATE: December 22, 1998

; PRIOR APPLICATION NUMBER: 60/146,222
 ; PRIOR FILING DATE: July 28, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US98/19330
 ; PRIOR FILING DATE: September 16, 1998
 ; PRIOR APPLICATION NUMBER: PCT/US98/25108
 ; PRIOR FILING DATE: December 1, 1998
 ; PRIOR APPLICATION NUMBER: 09/216,021
 ; PRIOR FILING DATE: December 16, 1998
 ; PRIOR APPLICATION NUMBER: 09/218,517
 ; PRIOR FILING DATE: December 22, 1998
 ; PRIOR APPLICATION NUMBER: 09/254,311
 ; PRIOR FILING DATE: March 3, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/12252
 ; PRIOR FILING DATE: June 22, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: September 15, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/28409
 ; PRIOR FILING DATE: No. US20020132768A1ember 30, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: No. US20020132768A1ember 30, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/28301
 ; PRIOR FILING DATE: December 1, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095
 ; PRIOR FILING DATE: December 16, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US00/03565
 ; PRIOR FILING DATE: February 11, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: February 22, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/05841
 ; PRIOR FILING DATE: March 2, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/08439
 ; PRIOR FILING DATE: March 30, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/14042
 ; PRIOR FILING DATE: May 22, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/20710
 ; PRIOR FILING DATE: July 28, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/32678
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 ; PRIOR APPLICATION NUMBER: PCT/US01/06520
 ; PRIOR FILING DATE: February 28, 2001
 ; NUMBER OF SEQ ID NOS: 120
 ; SEQ ID NO 82
 ; LENGTH: 2284
 ; TYPE: DNA
 ; ORGANISM: Homo Sapien
 US-09-945-015-82

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 Score: 2211.00 Matches: 431
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 9 Gaps: 0

US-10-735-014-83 (1-431) x US-09-945-015-82 (1-2284)

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 Qy 41 IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValThrThrSerThrGln 60
 Db 346 ATCCAGTCATCTCTTTCTAAGGGAATCAGAGCAATCAGCCCGATATACCTCAACTCAA 405
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 Db 406 GAAGACTGCTAATAATTCCTGCTTCAACAAAAACATATCAGGGGCAAGAGCATGAAC 465

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 Qy 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer 140
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 Qy 141 LeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAlaHisHisThrAspThr 160
 Db 646 CTCTTACATGGCCAAATTTTCAAGAGCATCTCCCTAGCCCATCATCAACAGATAT 705
 Qy 161 SerLysProThrAspIleSerThrArgAspThrLeuSerGlnLysPheGlySerSerAsp 180
 Db 706 TCAAAGCCCAACCGATATCTCATGGAGAGACACACTTCTCAGAAAGTTTGGATCCTCAGAT 765
 Qy 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaThrLysGlu 200
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 Qy 201 LysGlyHisSerGlnSerSerGlnPheSerSerAspGlnGluLeuAlaHisLeuLeuPro 220
 Db 826 AAGGCCATTTCTCAGAGTTTACAAATTTCTCTGATCAAGAAATAGCTCATCTGCTGCT 885
 Qy 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrThrSerAla 240
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 Qy 261 GlnProGlnLeuAlaThrThrAlaProProValThrThrValThrSerGlnProProThr 280
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 Qy 301 AlaValLeuThrThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
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 Qy 321 ProPheThrGluIleSerAsnLeuThrLeuAsnThrGlyAsnValThrAsnProThrAla 340
 Db 1186 CCGTTTACAGAAATCTCCAACCTTAACCTTTGAACACAGGGAATGTATTAACCTACTGCA 1245
 Qy 341 LeuSerMetSerAsnValGluSerSerThrMetAsnLysThrAlaSerThrGluGlyArg 360
 Db 1246 CTTTCTATGTCAAAATGTGGAGTCTTCCACTATCAATAAAACTGCTTCTCTGGGAAGTAGG 1305
 Qy 361 GluAlaSerProGlySerSerSerGlnGlySerValProGluAsnGlnThrGlyLeuPro 380
 Db 1306 GAGGCAGTCCAGGAGTTCCTCCAGGCGAGGTTCAGAAATCAGTACGCGCTTCCA 1365
 Qy 381 PheGluLysThrLeuLeuIleGlySerLeuPheGlyValLeuPheLeuValIleGly 400
 Db 1366 TTTGAAAAATGGCTTCTTATCGGGTCCCTGCTCTTTGGTGTCTGTTCTCTGGTATAGGC 1425
 Qy 401 LeuValLeuLeuGlyArgIleLeuSerGluSerLeuArgArgLysArgThrSerArgLeu 420
 Db 1426 CTCGCTCTCTCGGTAGAATCTTTCGGGAATCACTCCGAGGAACGCTTACTCAAGACTG 1485
 Qy 421 AspThrLeuIleAsnGlyIleThrValAspIle 431
 Db 1486 GATTATTTGATCAATGGGATCTATGTGGACATC 1518

RESULT 15

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; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020132981A:ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020132981A:ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 82
; LENGTH: 2284
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-944-396-82

Alignment Scores:
Pred. No.: 1,47e-211 Length: 2284
Score: 2211.00 Matches: 431
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-10-735-014-83 (1-431) x US-09-944-396-82 (1-2284)

Qy 1 MetPhepGlyGlyGlySerLeuThrThrLeuValIleIleCysPheLeuThr 20
Db 226 ATGTTCTTCGGGGAGAGGAGGCTTACCTTACACTTTGGTAAATAATTTGCTTCTGACA 285

Qy 21 LeuArgLeuSerAlaSerGlnAsnCysLeuLysLysSerLeuGluAspValIleAsp 40
Db 286 CTAAGGCTGTCTGTAGTTCAGAAATGCTCAAAAAGAGCTTAGAAGATGTTGTCATTGAC 345

Qy 41 IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValTyrThrSerThrGln 60
Db 346 ATCCAGTCATCTCTTTCTAAGGAATCAGAGGCAATGAGCCGTATATATATCTTCAACTCAA 405

Qy 61 GluAspCysIleAsnSerCysSerThrLysAsnIleSerGlyAspLysAlaCysAsn 80
Db 406 GAAGACTGCAATTAATCTTCTGTGTCAACAAAAAACATATCAGGGGACAAAGCATGTAAAC 465

Qy 81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysTyrLeuPhePheCys 100
Db 466 TTGATGATCTTCGACATCGNAAAACAGTAGACAAACCACTGCTACTATTTTCTGT 525

Qy 101 ProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeuMetSerTyrArgIleIle 120
Db 526 CCCAACGAGGAAGCCTGTCATTCAAACCCAGCAAAAGGAGCTTATGAGTTACAGGATAATT 585

Qy 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer 140
Db 586 ACAGATTTTCATCTTTTGACCGAGAAATTTGCGCAAGCCAAAGAGTTACCCCGAAGATTCT 645

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Qy 161 SerIysProThrAspIleSerTrpArgAspThrLeuSerGlnLysPheGlySerSerAsp 180
Db 706 TCAAAGCCACCGCATATCTCATGGAGACACACTTTCTCAGAAGTTTGGATCCTCAGAT 765
Qy 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrLysGlu 200
Db 766 CACCTGGGAACACTATTTAAGATGATGAACAAGTGCCAGCTCCTTGTCTATAAGGAA 825
Qy 201 LysGlyHisSerGlnSerSerGlnPheSerSerAspGlnGluIleAlaHisLeuLeuPro 220
Db 826 AAAGGCCATTCTCAGAGTTCACAATTTTCTCTGATCAAGAAATAGCTCATCTGCTGCCT 885
Qy 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrThrSerAla 240
Db 886 GAAATGTGTAGTGGCTCCAGCTACGGTGGCAGTTGCTTCTCCACATACCACCTCGGCT 945
Qy 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260
Db 946 ACTCCAAAGCCGCCACCTTCTCCCACTGCTTCCAGTACACCTTCTGGGACTTCC 1005
Qy 261 GlnProGlnLeuAlaThrAlaProProValThrThrValThrSerGlnProProThr 280
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Qy 281 ThrLeuIleSerThrValPheThrArgAlaAlaAlaThrLeuGlnAlaMetAlaThrThr 300
Db 1066 ACCCTCATTTCTCAGTGTTCACAGGGCTGCGGCTACACTCCAAGCAATGGCTACAACA 1125
Qy 301 AlaValLeuThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
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Qy 381 PheGluLysTrpLeuLeuIleGlySerLeuLeuPheGlyValLeuPheLeuValIleGly 400
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Db 1486 GATTATTGTATCATGGATCTATGTGGACATC 1518
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Search completed: April 27, 2005, 02:27:57
Job time : 667 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - nucleic search, using frame_plus_p2n model

Run on: April 26, 2005, 22:01:01 ; Search time 3342 Seconds
(without alignments)
4908.947 Million cell updates/sec

Title: US-10-735-014-83

Perfect score: 2211

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Scoring table:

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Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
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Searched: 34239544 seqs, 19032134700 residues

Total number of hits satisfying chosen parameters: 68479088

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Database :

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2: gb_est2:*

3: gb_hcc:*

4: gb_est3:*

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8: gb_gss1:*

9: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	1831	82.8		1965	3	CRG21081	CRG21081 full-length
4	1376	62.2		853	5	BQ424639	BQ424639 AGENCOURT
c	5	1353	61.2	884	5	BX350141	BX350141 BX350141
	6	1225	55.4	1050	1	AL525434	AL525434 AL525434
	7	1176.5	53.2	1245	9	AY401138	AY401138 Mus muscu
	8	1164.5	52.7	2235	3	AK033526	AK033526 Mus muscu
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10	1164.5	52.7	2265	3	AK046837	Mus muscu
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21	985	44.5	684	5	EX485439	DXPZP686C
22	888.5	40.2	839	7	CF593691	AGENCOURT
23	862.5	39.0	1036	1	AL549886	AL549886
24	852	38.5	699	4	BG720669	602692553
25	807	36.5	870	2	BF312571	601897547
26	790	35.7	697	7	CN365249	170005999
27	780.5	35.3	805	1	AUI38119	AUI38119
28	767	34.7	668	7	CK834065	4058249 B
29	765	34.6	447	5	BP246319	BP246319
30	764.5	34.6	855	1	AUI23305	AUI23305
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33	709	32.1	687	5	EX953184	DRFZP781N
34	683	30.9	441	4	BI031052	IL5-MT026
35	679	30.7	457	2	AW752992	QVO-CT022
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VERSION	AY401136.1	GI:39757125			
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SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens				
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AUTHORS	Clark, A.G., Glanowski, S., Nielson, R., Thomas, P., Kejarawal, A., Todd, M.A., Tanenbaum, D.M., Civello, D.R., Lu, F., Murphy, B., Ferriera, S., Wang, G., Zheng, X.H., White, T.J., Sninsky, J.J., Adams, M.D. and Cargill, M.				
TITLE	Inferring nonneutral evolution from human-chimp-mouse orthologous gene trios				
JOURNAL	Science 302 (5652), 1960-1963 (2003)				
PUBMED	14671302				
REFERENCE	2 (bases 1 to 1296)				
AUTHORS	Clark, A.G., Glanowski, S., Nielson, R., Thomas, P., Kejarawal, A., Todd, M.A., Tanenbaum, D.M., Civello, D.R., Lu, F., Murphy, B., Ferriera, S., Wang, G., Zheng, X.H., White, T.J., Sninsky, J.J., Adams, M.D. and Cargill, M.				
TITLE	Direct Submission				
JOURNAL	Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive, Rockville, MD 20850, USA				
COMMENT	This sequence was made by sequencing genomic exons and ordering them based on alignment.				
FEATURES	Location/Qualifiers				
source	1..1296				

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/mol_type="genomic DNA"
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/locus_tag="HCM0790"

gene
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Alignment Scores:
Pred. No.: 2,748-191 Length: 1296
Score: 2211.00 Matches: 431
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-10-735-014-83 (1-431) x AY401136 (1-1296)

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Db 1 ATGTTCTTCGGGGAGAGGAGCTTGACTTACACTTTGGTAATAATTTGCTTCTGACA 60
Qy 21 LeuArgLeuSerAlaSerGlnAsnCysLeuLysSerLeuGluAspValIleAsp 40
Db 61 CTAGGCTGTCTGCTAGTCAGAAATTCCTCAAAAAGAGCTAGAGAAGATGTTGTCTATGAC 120
Qy 41 IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValTyThrSerGln 60
Db 121 ATCCAGTCATCTCTTTCTAAGGGAATCAGAGCAATGAGCCGATATATCTTCAACTCAA 180
Qy 61 GluAspCysIleAsnSerCysCysSerThrLysAsnIleSerGlyAspLysAlaCysAsn 80
Db 181 GAAGACTGCATTAATCTTCTGTTTCAACAAAACATATCAGGGCAAGAGATGTAAC 240
Qy 81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysTyThrPhePheCys 100
Db 241 TTGATGATCTTCGACACTCGAAAAACAGCTAGACAAACCACTGCTACTATTTTCTGT 300
Qy 101 ProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeuMetSerTyArgIleIle 120
Db 301 CCCACAGAGGAGGCTGTCATTTGAACCAACAAAGAGACTTATGAGTTACAGATTAAT 360
Qy 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer 140
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Db 541 CACTTGGAGAACTATTTAAGATGATGAAGCAAGTGCCAGCTCTTCTGCTTATAAGGAA 600
Qy 201 LysGlyHisSerGlnSerSerGlnPheSerSerAspGlnGluIleAlaHisLeuLeuPro 220
Db 601 AAAGGCCATTCTCAGAGTTCAATTTTCTCTCATCAAGAAATAGCTCATCTCTGCTGCT 660
Qy 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrSerAla 240
Db 661 GAAATGTGAGTGGCTCCAGCTACGGTGCGAGTTGCTTCTCCACATACCACTCCGCT 720
Qy 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260
Db 721 ACTCCAAAGCCGCCCTTCTACCCACCAATGCTTCAGTGACACCTTCTGGGACTTCC 780
Qy 261 GlnProGlnLeuAlaThrAlaProProValThrThrValThrSerGlnProProThr 280
Db 781 CAGCCACAGCTGGCCACCACAGCTCCACCTGTATACCACTGTCTTCTCAGCCTCCCAACG 840

Qy 281 ThrLeuIleSerThrValPheThrArgAlaAlaAlaThrLeuGlnAlaMetAlaThrThr 300
Db 841 ACCCTCATTTTCTACAGTTTTCACACGGGCTCGCGCTACACTCTCAAGCAAGATGGCTACACA 900
Qy 301 AlaValLeuThrThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
Db 901 GCAGTTCTGACTACCACTTTTCAGGCACCTCAGGACTCGAAGGCAGCTTAGAACCATA 960
Qy 321 ProPheThrGluIleSerAsnLeuThrLeuAsnThrGlyAsnValTyAsnProThrAla 340
Db 961 CCGTTTACAGAAATCTCCAACTTAACTTGAACACAGGGAATGTGTATAACCCCTACTGCA 1020
Qy 341 LeuSerMetSerAsnValGluSerSerThrMetAsnLysThrAlaSerTrpGluGlyArg 360
Db 1021 CTTTCTATGTCAAATGGAGTCTTCCACTATGAATAAACTGCTTCTCTGGAGGTAGG 1080
Qy 361 GluAlaSerProGlySerSerSerGlnGlySerValProGluAsnGlnTyGlyLeuPro 380
Db 1081 GAGGCCAGTCCAGGCAGTTCTCCAGGCGAGTTCCACAGAAATCAGTACGGCTTCCA 1140
Qy 381 PheGluLysTrpLeuLeuIleGlySerLeuLeuPheGlyValLeuPheLeuValIleGly 400
Db 1141 TTTGAAAAATGGCTTCTTATCGGGTCCCTGCTCTTTGGTGTCTCTGTTCTCTGGTATAGGC 1200
Qy 401 LeuValLeuLeuGlyArgIleLeuSerGluSerLeuArgArgLysArgTyThrSerArgLeu 420
Db 1201 CTGCTCTCTCTGGTAGATCTCTCGAATCACTCCGAGGAACGTTTACTCAAGACTG 1260
Qy 421 AspTyThrLeuIleAsnGlyIleTyThrValAspIle 431
Db 1261 GATTATTTGATCAATGGATCTATGGACATC 1293

RESULT 2
AY401137 1296 bp DNA linear GSS 12-DEC-2003
LOCUS Pan troglodytes HCM0790 gene, VIRTUAL TRANSCRIPT, partial sequence,
DEFINITION genomic survey sequence.
ACCESSION AY401137
VERSION AY401137.1 GI:39757126
KEYWORDS GSS.
SOURCE Pan troglodytes (chimpanzee)
ORGANISM Pan troglodytes
MAMMALIA; EUTHERIA; PRIMATES; CATARRHINI; HOMINIDAE; PAN.
REFERENCE 1 (bases 1 to 1296)
AUTHORS Clark,A.G., Gnanowski,S., Nielson,R., Thomas,P., Kejarawal,A.,
Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B.,
Ferreira,S., Wang,G., Zheng,X.H., White,T.J., Sainsky,J.J.,
Adams,M.D. and Cargill,M.
TITLE Inferring nonneutral evolution from human-chimp-mouse orthologous
gene trios
JOURNAL Science 302 (5652), 1960-1963 (2003)
PUBMED 14671302
REFERENCE 2 (bases 1 to 1296)
AUTHORS Clark,A.G., Gnanowski,S., Nielson,R., Thomas,P., Kejarawal,A.,
Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B.,
Ferreira,S., Wang,G., Zheng,X.H., White,T.J., Sainsky,J.J.,
Adams,M.D. and Cargill,M.
TITLE Direct Submission
JOURNAL Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive,
Rockville, MD 20850, USA
COMMENT This sequence was made by sequencing genomic exons and ordering
them based on alignment.
FEATURES Location/Qualifiers
source 1..1296
/organism="Pan troglodytes"
/mol_type="genomic DNA"
/db_xref="taxon:9598"
<1..>1296
/locus_tag="HCM0790"

gene
ORIGIN
Alignment Scores:

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Pred. No.: 9,96e-189 Length: 1296
 Score: 2183.00 Matches: 426
 Percent Similarity: 98.84% Conservative: 0
 Best Local Similarity: 98.84% Mismatches: 5
 Query Match: 98.73% Indels: 0
 DB: 9 Gaps: 0

US-10-735-014-83 (1-431) x AY401137 (1-1296)

QY 1 MetPheGlyGlyGlySerLeuThrThrLeuVallelleCysPheLeuThr 20
 DB 1 ATGTTCTTTGGGGAGAGGAGCTTGAATTAATTTGGTAATTTGCTTCTGACA 60
 QY 21 LeuArgLeuSerAlaSerGlnnSerLeuLysSerLeuGluaspVallelleAsp 40
 DB 61 CTAAGGCTGCTGCTAGTACAGAAATGCTCAACAGAGTCTAGAAGATGTTGTCATTGAC 120
 QY 41 IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValThrThrSerThrGln 60
 DB 121 ATCCAGTCAATCTTTCTTAAGGAATCAGAGGCAATGAGCCGCTATATATCTCAACTCAA 180
 QY 61 GluAspCysIleAsnSerCysSerThrLysAsnIleSerGlyAspLysAlaCysAsn 80
 DB 181 GAAGACTGCAATTAATTTCTTGCTTCAACAAAACATATCAGGGACAAAGCATGTAAAC 240
 QY 81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysThrLeuPhePheCys 100
 DB 241 TTGATGATCTTCGACACTCGAAAAACAGCTAGACAACTGCTACCTCTTTTCTGCT 300
 QY 101 ProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeuMetSerThrArgIlelle 120
 DB 301 CCCAATGAGGAGCCTGCTCCATGTAACACAGCAAGGACTTATGAGTTACAGGATAAT 360
 QY 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer 140
 DB 361 ACAGATTTCCATCTTTGACAGAAATTTGCCAAGCAGAGATTACCCAGGAGAAATCT 420
 QY 141 LeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAlaHisHisThrAspThr 160
 DB 421 CTCCTACATGGCCAAATTTTCAAGCAGTCACTCCCTAGCCCATCATCACAGATTAT 480
 QY 161 SerLysProThrAspIleSerThrArgAspThrLeuSerGlnLysPheGlySerSerAsp 180
 DB 481 TCAAGGCCACCCGATATCTATGGAGAGACACACTTTCTCAAGAGTTTGGATCCCTCAGAT 540
 QY 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaThrLysGlu 200
 DB 541 CACTTGGAGAACTATTTAAGATGGATGAAGCAAGTCCAGCTCTTCTTATAGGNA 600
 QY 201 LysGlyHisSerGlnSerSerGlnPheSerAspGlnGluAlaHisLeuLeuPro 220
 DB 601 AAAGGCCATCTCAGAGTTCAAGATTTCTCTGATCAAGAAATAGCTCATCTGCTGCT 660
 QY 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrThrSerAla 240
 DB 661 GAAATGTGAGTGCCTCCAGCTACGGTGGAGATTGCTTCTCCACATACCACTCCGCT 720
 QY 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260
 DB 721 ACTCCAAAGCCCAACACCTTTCTACCCCAATGCTTCTAGTGACACTTCTGGGACTTCC 780
 QY 261 GlnProGlnLeuAlaThrThrAlaProProValThrThrValThrSerGlnProProThr 280
 DB 781 CAGCCACAGCTGCCACCAACAGCTCCACCTGTAAACCATGCTCTCTCAGCCTCCACG 840
 QY 281 ThrLeuIleSerThrValPheThrArgAlaAlaAlaThrLeuGlnAlaMetAlaThrThr 300
 DB 841 ACCCTCATTTCTACAGTTTTCACAGGGCTGGGGCTACACTCCAAGCAATGGCTACAACA 900
 QY 301 AlaValLeuThrThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
 DB 901 GCAGTTCTGACTACCACTTTTTCAGGCACCTTACGGACTCGAAAGGCGGCTAGAAACCATTA 960

QY 321 PropheThrGluIleSerAsnLeuThrLeuAsnThrGlyAsnValThrAsnProThrAla 340
 DB 961 CCGTTTACAGAAATCTCAACCTAACTTTTGAACACAGGGAATGTGTATAACCTACTGCA 1020
 QY 341 LeuSerMetSerAsnValGluSerSerThrMetAsnLysThrAlaSerTrpGluGlyArg 360
 DB 1021 CTTTCTATGTCAATGTGGAGTCTTCCACTAGCAATAAACTGCTTCTCTGGGAAGTAGG 1080
 QY 361 GluAlaSerProGlySerSerSerGlnGlySerValProGluAsnGlnThrGlyLeuPro 380
 DB 1081 GAGGCCAGTCCAGGAGTTCGTCCTCAGGCGAGTGTTCAGAAAATCAGTACGCGCTTCCA 1140
 QY 381 PheGluLysTrpLeuLeuIleGlySerLeuPheGlyValLeuPheLeuValIleGly 400
 DB 1141 TTTGAAAATGGCTCTTTATCGGGTCCCTGCTCTTTGGTGTCTGTCTCTGGTATAGGC 1200
 QY 401 LeuValLeuLeuGlyArgIleLeuSerGluSerLeuArgLysArgTrpSerArgLeu 420
 DB 1201 CTCGTCTCTCGGTAGATCTCTTGGATCACTCCGCGAGGAACGTTACTCTACAGACTG 1260
 QY 421 AspTyrLeuIleAsnGlyIleTyrValAspIle 431
 DB 1261 GATTATTGATCAATGGGATCTATGTGGACATC 1293

RESULT 3
 CR621081 1965 bp mRNA linear HTC 21-JUL-2004
 LOCUS full-length cDNA clone CS0DI054YH07 of Placenta Cot 25-normalized
 DEFINITION of Homo sapiens (human).
 ACCESSION CR621081
 VERSION CR621081.1 GI:50501888
 KEYWORDS HTC; CNSLT cDNA.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1965)
 AUTHORS Li.W.B., Gruber,C., Jesse,J. and Polayes,D.
 TITLE Full-length cDNA libraries and normalization
 JOURNAL Unpublished
 REMARK Contact : Feng Liang Email : fliang@lifetech.com URL :
 http://fulllength.invitrogen.com/ Invitrogen Corporation 1600
 Faraday Avenue
 REFERENCE 2 (bases 1 to 1965)
 AUTHORS Genoscope.
 TITLE Direct Submission
 JOURNAL Submitted (20-JUL-2004) Genoscope - Centre National de Sequencage :
 BP 191 91006 EVRY cedex - FRANCE (E-mail : seqref@genoscope.cns.fr)
 COMMENT - Web : www.genoscope.cns.fr
 1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime
 end enriched, double-strand cDNA was digested with Not I and cloned
 into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
 was normalized. Library was constructed by Life Technologies, a
 division of invitrogen.
 FEATURES
 Location/Qualifiers
 1..1965
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="CS0DI054YH07"
 /tissue_type="Placenta Cot 25-normalized"
 /plasmid="pCMVSPORT_6"

ORIGIN
 Alignment Scores:
 Pred. No.: 3,05e-156 Length: 1965
 Score: 1831.00 Matches: 357
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 82.81% Indels: 0
 DB: 3 Gaps: 0

US-10-735-014-83 (1-431) x CR621081 (1-1965)

QY 75 GlyAspLysAlaCysAsnLeuMetIlePheAspThrArgLysThrAlaArgLysProAsn 94
 Db 147 GGGGCAAGCATGTAATGATGATCTGCACACTCGAAAAACAGCTAGACACCCCAAC 206
 QY 95 CysTyrLeuPhePheCysProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeu 114
 Db 207 TGCTACCTATTTTCTGCTCCACAGGAGGCTGTCCATTGAAACCAAGCAAGGACTT 266
 QY 115 MetSerTyrArgIleIleThrAspPheProSerLeuThrArgAsnLeuProSerGlnGlu 134
 Db 267 ATGAGTTACAGGATAATACAGATTTTCCATCTTGACCAAGAAATTTGCCAAGCAAGAG 326
 QY 135 LeuProGlnGluAspSerLeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAla 154
 Db 327 TTACCCCAAGGAGATCTCTCTTACATGGCAATTTTCCACAGCAGTCACCTCCCTAGCC 386
 QY 155 HisHisThrAspTyrSerLysProThrAspIleSerTrpArgAspThrLeuSerGln 174
 Db 387 CATCATCACACAGATTATTCAAAGCCCAACCGATATCTCATGGAGAGACACACTTCTCAG 446
 QY 175 LysPheGlySerSerAspHisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGln 194
 Db 447 AAGTTTGGATCCTCAGATCCTCGAGAACTATTAAAGATGGATGAAGCAAGTGCCAG 506
 QY 195 LeuLeuAlaTyrLysGluLysGlyHisSerGlnSerSerGlnPheSerSerAspGlnGlu 214
 Db 507 CTCCTTGCTTATAGGAAAGGCCATCTTCAGAGTTCAAAATTTCTCTGTATCAGAA 566
 QY 215 IleAlaHisLeuLeuProGluAsnValSerAlaLeuProAlaThrValAlaValAlaSer 234
 Db 567 ATAGCTCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 626
 QY 235 ProHisThrThrSerAlaThrProLysProAlaThrLeuLeuProThrAsnAlaSerVal 254
 Db 627 CCACATACCACTCGGCTACTCCAAAGCCGCCACCTTCTACCCACCAATGCTTCAGTG 686
 QY 255 ThrProSerGlyThrSerGlnProGlnLeuAlaThrThrAlaProProValThrThrVal 274
 Db 687 ACACCTCTGGGACTTCCAGCCACAGCTGGCCACACAGCTCCACCTGTAACCACTGTC 746
 QY 275 ThrSerGlnProProThrThrLeuIleSerThrValPheThrArgAlaAlaAlaThrLeu 294
 Db 747 ACTTCTCAGCTCCCAACACCTCATTTCTACAGTTTTTACACGGCTGCGGTACACTC 806
 QY 295 GlnAlaMetAlaThrThrAlaValLeuThrThrPheGlnAlaProThrAspSerLys 314
 Db 807 CAAGCAATGGGTACAAACAGCAGTCTGACTACCACTTTCAGGCACCTTACGGACTCGAAA 866
 QY 315 GlySerLeuGluThrIleProPheThrGluIleSerAsnLeuThrLeuAsnThrGlyAsn 334
 Db 867 GGCAGCTTAGAAACCATACCTTTACAGAAATCTCCAACTTAATTTGAACACAGGGAAT 926
 QY 335 ValTyrAsnProThrAlaLeuSerMetSerAsnValGluSerSerThrMetAsnLysThr 354
 Db 927 GTGTATAACCTTACTGCATCTTCTATGTCAAATGTGGAGTCTTCCACTATGAATAAACT 986
 QY 355 AlaSerTrpGluGlyArgGluAlaSerProGlySerSerSerGlnGlySerValProGlu 374
 Db 987 GCTTCTCTGGAGGTAGGAGGCGCAGTCCAGGAGTCTCTCCCAAGGCGAGTGTCCAGAA 1046
 QY 375 AsnGlnTyrGlyLeuProPheGluLysTrpLeuLeuIleGlySerLeuLeuPheGlyVal 394
 Db 1047 AATCAGTACGCTTCCATTTGAAATGGCTTCTTATCGGTCCTCTCTTTGGTGTGTC 1106
 QY 395 LeuPheLeuValIleGlyLeuValLeuLeuGlyArgIleLeuSerGluSerLeuArg 414
 Db 1107 CTGTTCTCTGGGTAGGCTCGTCTCTCTGGGTAGAATCTCTCGGAATCACTCCGCGAGG 1166
 QY 415 LysArgTyrSerArgLeuAspTyrLeuIleAsnGlyIleTyrValAspIle 431
 Db 1167 AAACGTTACTCAAGACTGGATTATTTGATCAATGGATCTATGGGACATC 1217

RESULT 4

BQ424639

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

JOURNAL

COMMENT

BQ424639 853 bp mRNA linear EST 23-MAY-2002
 AGENCOURT 7896936 NIH_MGC_72 Homo sapiens cdna clone IMAGE:6159709
 5', mRNA sequence.

BQ424639.1 GI:211119954

EST.

Homo sapiens (human)

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

NIH-MGC http://mgi.nci.nih.gov/.

National Institutes of Health, Mammalian Gene Collection (MGC)

Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Email: cgapbs-x@mail.nih.gov

Tissue Procurement: ATCC/DCTD/DTP

CDNA Library Preparation: Life Technologies, Inc.

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA sequencing by: Agencourt Bioscience Corporation

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

http://image.llnl.gov

Plate: LAM13509 row: d column: 14

High quality sequence stop: 735.

Location/Qualifiers

source

1. 853

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:6159709"

/tissue_type="melanotic melanoma"

/lab_host="DH10B (phage-resistant)"

/clone_lib="NIH MGC 72"

/notes="Organ: skin; Vector: pCMV-SPORT6; Site 1: NotI;

Site 2: SalI; Cloned unidirectionally. Primer: Oligo dt.

Average insert size 2 kb. Library constructed by Life

Technologies."

ORIGIN

Alignment Scores:

Pred. No.: 3 37e-115 Length: 853

Score: 1376.00 Matches: 272

Percent Similarity: 99.28% Conservatives: 2

Best Local Similarity: 98.55% Mismatches: 0

Query Match: 62.23% Indels: 2

DB: 5 Gaps: 0

US-10-735-014-83 (1-431) x BQ424639 (1-853)

QY 73 IleSerGlyAspLysAlaCysAsnLeuMetIlePheAspThrArgLysThrAlaArgGln 92

Db 17 ATTGCAGGGGACAAAGCATGTAATCTGATCTTCGACACTCGAAAAACAGCTAGACAA 76

QY 93 ProAsnCysTyrLeuPhePheCysProAsnGluGluAlaCysProLeuLysProAlaLys 112

Db 77 CCAACTGTCTACCTATTTTCTGTCCACAGGAGGCTGTCCATTTGAAACCAAGCAAAA 136

QY 113 GlyLeuMetSerTyrArgIleIleThrAspPheProSerLeuThrArgAsnLeuProSer 132

Db 137 GGACTTATGAGTTACAGGATAATACAGATTTTCCATCTTTGACCAAGAAATTTGCCAAGC 196

QY 133 GlnGluLeuProGlnGluAspSerLeuLeuHisGlyGlnPheSerGlnAlaValThrPro 152

Db 197 CAAGAGTTACCCAGAGAAATCTCTTACATGGCCAAATTTTCAACAGCAGTCACTCCC 256

QY 153 LeuAlaHisHisThrAspTyrSerLysProThrAspIleSerTrpArgAspThrLeu 172

Db 257 CTAGCCCATCATCACAGATTATTCAAGCCCAACCGATATCTCATGGAGAGACACACTT 316

QY 173 SerGlnLysPheGlySerSerAspHisLeuGluLysLeuPheLysMetAspGluAlaSer 192

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Db      317  TCTCAGAGTTTGATCCTCAGATCACCTGGAGAACTATTAAAGATGATGAAGCACT 376
Qy      193  AlaGlnLeuAlaTyrLysGluLysGlyHisSerGlnSerSerGlnPheSerSerApp 212
Db      377  GCCAGCTCTTGCTTATTAAGGAAAGGCCATTCTCAGAGTTCAAAATTTTCCTGAT 436
Qy      213  GlnGluLeuAlaHisLeuLeuProGluAnValSerAlaLeuProAlaThrValAlaVal 232
Db      437  CAAGAAATAGCTCATCTGCTGCTGAAATGTGAGTGCCTCCAGCTACGGGTGGCAGTT 496
Qy      233  AlaSerProHisThrThrSerAlaThrProLysProAlaThrLeuLeuProThrAla 252
Db      497  GTTCTTCCACATACCACTCGGCTACTCCAAAGCGCCGCCCTTCTACCCCAATGCT 556
Qy      253  SerValThrProSerGlyThrSerGlnProGlnLeuAlaThrThrAlaProProValThr 272
Db      557  TCAGTGACACCTTCTGGGACTTCCAGCCACAGCTGGCCACACAGCTCCACCTGTAAC 616
Qy      273  ThrValThrSerGlnProProThrThrLeuLeuSerThrValPheThrArgAlaAla 292
Db      617  ACTGTCACTTCTCAGCTCCACAGCCCTCAATTTCTACAGTTTTCACAGGGCTGGCT 676
Qy      293  ThrLeuGlnAlaMetAlaThrThrAlaValLeuThrThrPheGlnAlaProThrAsp 312
Db      677  ACACCTCAAGCAATGCTCAACAGAGTTCAGACTTACCACCTTTCAGGCACCTACGGAC 736
Qy      313  SerLysGlySerLeuGluThrIleProPheThrGluLeuSerAsnLeuThrLeuAsnThr 332
Db      737  TCGAAGGAGCAGTTAGAACCATACCGTTTACAGAAATCTCCACTTAATTTGAACACA 796
Qy      333  GlyAsnValTyrAsn-ProThrAlaLeuSerMetSerAsnVal 346
Db      797  GGGGAATGTGTATAACCCCTACTGCACCTTCTATGTCAATGTG 840

```

RESULT 5

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BX350141/c
LOCUS      BX350141 Homo sapiens PLACENTA COT 25-NORMALIZED Homo sapiens cDNA
DEFINITION clone CS0D1054YH07 3-PRIME, mRNA sequence.
ACCESSION BX350141
VERSION    BX350141.1 GI:30365418
KEYWORDS   EST.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 884)
Li,W.B., Gruber,C., Jessee,J. and Polayes,D.
Full-length cDNA libraries and normalization
Unpublished (2001)
Contact: Genoscope
Genoscope - Centre National de Sequencage
2 rue Gaston Cremieux, CP 5706 - 91057 EVRY cedex - FRANCE
Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
was normalized. Library was constructed by Life Technologies, a
division of Invitrogen. This sequence belongs to sequence cluster
6656.r
For more information about this cluster, see
http://www.genoscope.cns.fr/cdna?s=CS0BAI0232A03_CS02129_1&c=6656.r

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FEATURES

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source      Location/Qualifiers
1..884
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CS0D1054YH07"
/tissue_type="PLACENTA COT 25-NORMALIZED"
/clone_lib="Homo sapiens PLACENTA COT 25-NORMALIZED"
/note="1st strand cDNA was primed with a NotI-oligo(dT)

```

primer. Five prime end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library was normalized."

```

ORIGIN
Alignment Scores:
Pred. No.:      4,53e-113      Length:      884
Score:          1353.00      Matches:    283
Percent Similarity: 97.26%      Conservative: 1
Best Local Similarity: 96.92%      Mismatches: 8
Query Match:    61.19%      Indels:     3
DB:             5          Gaps:         0

```

```

US-10-735-014-83 (1-431) x BX350141 (1-884)
Qy      125  SerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSerLeuLeuHisGly 144
Db      882  TCTTGGACCAAGAAATTTGGCAAGCCACAGATTACCAG-GAAGATTTCTCTTACATGGC 824
Qy      145  GlnPheSerGlnAlaValThrProLeuAlaHisHisThrAspTyrSerLysProThr 164
Db      823  AA-TTTTCAAGACAGTCACTCCCTAGCCATCATCACAGATTTATTTCANAGCCACC 765
Qy      165  AspIleSerTyrArgAspThrLeuSerGlnLysPheGlySerSerAspHisLeuGluLys 184
Db      764  AATATCTCATGGAGACACACT-TCTCAGAAAGTTTGTATCCCTCAGATCACCTGGAGAAA 706
Qy      185  LeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrLysGluLysGlyHisSer 204
Db      705  CTATTTAGATGGATGAAGCAAGTCCAGCTCTTGTATTATAAGAAAAGGCCATTCT 646
Qy      205  GlnSerSerGlnPheSerSerAspGlnGluIleAlaHisLeuLeuProGluAsnValSer 224
Db      645  CAGAGTTCACAATTTTCTCTGTATCAAGAAATAGCTCATCTGCTGCCTGAAATGTGAGT 586
Qy      225  AlaLeuProAlaThrValAlaValAlaSerProHisThrThrSerAlaThrProLysPro 244
Db      585  GCGCTCCAGCTACCGTGGCAGTGTCTTCCACATACCACCTCGGTACTCTCAAGCCCC 526
Qy      245  AlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSerGlnProGlnLeu 264
Db      525  GCCACCTTCTACCCCACTTCCTCAGTGACACCTTCTGGGACTTCCAGGCCACAGCTG 466
Qy      265  AlaThrThrAlaProProValThrThrValThrSerGlnProProThrThrLeuIleSer 284
Db      465  GCCACACAGCTCCACCTGTAACTGTCACTTCTCAGCTTCCACGACCTCATTTCT 406
Qy      285  ThrValPheThrArgAlaAlaThrLeuGlnAlaMetAlaThrThrAlaValLeuThr 304
Db      405  ACAGTTTTTACACGGGCTCGGCTACACTCCAAGCAATGGCTTACAACAGCAGTTCGTACT 346
Qy      305  ThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIleProPheThrGlu 324
Db      345  ACCACCTTTCAGGACCTTACGAGCTCAAAAGGCAGCTTAGAAACCATACCGTTACAGAA 286
Qy      325  IleSerAsnLeuThrLeuAsnThrGlyAsnValTyrAsnProThrAlaLeuSerMetSer 344
Db      285  ATCTCCAATTAACCTTGAACACAGGGAATGTGTATAACCTTACTGCACTTTCTATGTCA 226
Qy      345  AsnValGluSerSerThrMetAsnLysThrAlaSerTyrGluGlyArgGluAlaSerPro 364
Db      225  AATGTGGAGTCTTCCACTATGAATAAACTGTCTTCTGGGAAGGTAGGAGGCCAGTCCA 166
Qy      365  GlySerSerGlnGlySerValProGluAsnGlnTyrGlyLeuProPheGluLysTrp 384
Db      165  GCGAGTCTCTCCAGGCGAGTGTCCAGAAATCATAGTCGGCTTCCATTTGAAAAATGG 106
Qy      385  LeuLeuIleGlySerLeuLeuPheGlyValLeuPheValIleGlyLeuValLeuLeu 404
Db      105  CTTCTTATCGGGTCCCTGCTCTTTGGTGTCTTGTCTTCTGGTGTATAGGCTCTGCTCTCTG 46
Qy      405  GlyArgIleLeuSerGluSerLeuArgArgLysArg 416

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Db      45  GGTAGATCTCTCGGAATCACTCCGAGGAAACGT 10

RESULT 6
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LOCUS      AL525434 Homo sapiens NEUROBLASTOMA COT 25-NORMALIZED Homo sapiens
DEFINITION  CDNA clone CS0DC011YG07 5-PRIME, mRNA sequence.
ACCESSION  AL525434
VERSION    AL525434.3 GI:45700628
KEYWORDS   EST.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
            1 (bases 1 to 1050)
REFERENCE  Li,W.B., Gruber,C., Jessee,J. and Polayes,D.
AUTHORS   Full-length cDNA libraries and normalization
TITLE     Unpublished (2001)
JOURNAL
COMMENT    On Feb 13, 2001 this sequence version replaced gi:31063298.
Contact: Genoscope
Genoscope - Centre National de Sequencage
2 rue Gaston Crenieux, CP 5706 - 91057 EVRY cedex - FRANCE
Email: segre@genoscope.cns.fr, Web : www.genoscope.cns.fr
1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
was normalized. Library was constructed by Life Technologies, a
division of Invitrogen. This sequence belongs to sequence cluster
6656.r
For more information about this cluster, see
http://www.genoscope.cns.fr/cdna?s=CS0DC011AD04QPl&c=6656.r.
FEATURES
Location/Qualifiers
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            /note="1st strand cDNA was primed with a NotI-oligo(dT)
            primer. Five prime end enriched, double-strand cDNA was
            digested with Not I and EcoR V sites of the pCMVSPORT 6
            vector. Library was normalized."
ORIGIN
Alignment Scores:
Pred. No.:      3.05e-101      Length:      1050
Score:          1225.00      Matches:      244
Percent Similarity: 93.13%      Conservative: 0
Best Local Similarity: 93.13%      Mismatches: 16
Query Match:     55.40%      Indels:      3
DB:              1          Gaps:          1
US-10-735-014-83 (1-431) x AL525434 (1-1050)

Qy      1  MetPheGlyGlyGluGlySerLeuThrTyrrLeuValIlelleCysPheLeuThr 20
Db      248  ATGTTCTTCGGGGAGAGGAGCTTGCATTACACTTTGGTAATAATTGCTTCCTGACA 307

Qy      21  LeuArgLeuSerAlaSerGlnAsnCysLeuLysSerLeuGluAspValIleAsp 40
Db      308  CTAAGGCTGTCTGCTAGTCAGAAATTCCTCAAAAAGAGTCTAGAAGATGTTGTCAATTGAC 367

Qy      41  IleGlnSerSerLeuSerLysGlyLleArgGlyAsnGluProValTyrrSerThrGln 60
Db      368  ATCCAGTCATCTCTTTCTAAGGAATCAGAGCAATGAGCCCGTATATCTTCACTCAAC 427

Qy      61  GluAspCysIleAsnSerCysSerThrLysAsnIleSerGlyAspLysAlaCysAsn 80
Db      428  GAAGACTGCATTAATTCTTGTGTTCAACAAAAACATATCAGGGGCAAGAGCATGTAC 487

Qy      81  LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysTyrrLeuPheCys 100
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Db      488  TTGATGATCTTCGACACTCGAAAAACAGCTAGACAACCCCACTGCTACTATTTTCTGT 547

Qy      101  ProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeuMetSerTyrrArgIleIle 120
            |||||
Db      548  CCCAACGAGGAAGCCTGTTCATTTGAACACGACAAAGAGACTTATGAGTTACAGGATAATT 607

Qy      121  ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer 140
            |||||
Db      608  ACAGATTTTCCATCTTTGACCAAGAAATTGCCCAAGCCAAAGATTACCCAGGAGATCTCT 667

Qy      141  LeuLeuHisGlyGlnPheSerGlnAlaValThrProLeuAlaHisHisThrAspTyr 160
            |||||
Db      668  CTCTTACATGCGCAATTTTCAACAGCAGTCACTCCCTAGCCCATCATCACAGATTAT 727

Qy      161  SerLysProThrAspIleSerTrpArgAspThrLeuSerGlnLysPheGlySerSerAsp 180
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Db      728  TCAAAGCCCAACCATATCTCATGGAGAGACACACTTTTCTCAGAAGTTTGGATCCTCAGAT 787

Qy      181  HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrrLysGlu 200
            |||||
Db      788  CACTCGAGAAACTATTTAAGATGGATGAAGCAAGTGCCCGAGCTCTTGCCTTATAAGGAA 847

Qy      201  LysGlyHisSerGlnSerGlnPheSerSerAspGlnGluLeuAlaHisLeuLeuPr 220
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Db      848  AAAAGCCATTCTCAGAGTTTCACAATTTTCTCTCATCAAGAAATAGCTCATCTGCCTGCC 907

Qy      220  oGluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrThrSerAl 240
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Qy      240  aThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSe 260
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Db      966  YWATGCAARCCSGCAMCCTTATTACCM---CAATGCTAGTAGMACCTTGTGGACTTCM 1022

Qy      260  rGln 261
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AY401138      1245 bp      DNA      linear      GSS 12-DEC-2003
LOCUS      Mus musculus HCM0790 gene, VIRUAL TRANSCRIPT, partial sequence,
DEFINITION  genomic survey sequence.
ACCESSION  AY401138
VERSION    AY401138.1 GI:39757127
KEYWORDS   GSS.
SOURCE     Mus musculus (house mouse)
ORGANISM   Mus musculus
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
            1 (bases 1 to 1245)
REFERENCE  Clark,A.G., Gnanowski,S., Nielson,R., Thomas,P., Kejariwal,A.,
AUTHORS   Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B.,
            Ferreria,S., Wang,G., Zheng,X.H., White,T.J., Sninsky,J.J.,
            Adams,M.D. and Cargill,M.
            Inferring nonneutral evolution from human-chimp-mouse orthologous
            gene trios
            Science 302 (5652), 1960-1963 (2003)
            14671302
            2 (bases 1 to 1245)
            Clark,A.G., Gnanowski,S., Nielson,R., Thomas,P., Kejariwal,A.,
            Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B.,
            Ferreria,S., Wang,G., Zheng,X.H., White,T.J., Sninsky,J.J.,
            Adams,M.D. and Cargill,M.
            Direct Submission
            Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive,
            Rockville, MD 20850, USA
            This sequence was made by sequencing genomic exons and ordering
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            /mol_type="genomic DNA"

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321	QY	ProPheThrGluIleSerAsnLeuThrLeuAsnThrGlyAsnValTyrAsnProThrAla 340
928	Db	CCCTTTCAAGGAGGCTCTACGCTGACT-----TCAGACCCGAGGCAC 969
341	QY	LeuSerMetSerAsnValGluSerSerThrMetAsnLysThrAlaSerTrpGluGlyArg 360
970	Db	GGGAAAAGCTCAACCTTCAGAGCTCTTCATTAACAACAAGACTGCTTCCTGGGAGGACAGG 1029
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381	QY	PheGluLysTrpLeuLeuIleGlySerLeuLeuPheGlyValLeuPheLeuValIleGly 4000
1090	Db	TTTGAGAAAGTGGCTTCTCATTTGGGACCCCTCCTTTGTTGGTGTGTTTCTGGTAAATAGGT 1149
401	QY	LeuValLeuLeuGlyArgIleLeuSerGluSerLeuArgArgLysArgTyrSerArgLeu 420
1150	Db	CTCGTCCTCTGGGTAGGATGCTGGTGTGAAGCCCTCCGTAGGAACCGTATTCAAGACTT 1209
421	QY	AspTyrLeuIleAsnGlyIleTyrValAspIle 431
1210	Db	GACTACTTGATCAACGGGATCTATGTTGCATC 1242
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AK033526		
LOCUS		
DEFINITION		
AK033526 2235 bp mRNA linear HTC 03-APR-2004		
Mus musculus adult male colon cDNA, RIKEN full-length enriched		
library, clone:9030601P2 product:weakly similar to N72RM100115		
PROTEIN [Homo sapiens], full insert sequence.		
AK033526		
VERSION		
KEYWORDS		
SOURCE		
ORGANISM		
REFERENCE		
AUTHORS		
JOURNAL		
MEDLINE		
PUBMED		
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REFERENCE		
AUTHORS		
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MEDLINE		
PUBMED		
REFERENCE		
AUTHORS		

TITLE
JOURNAL
REFERENCE
AUTHORS

The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team.
Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs

Nature 409, 685-690 (2001)

TITLE
JOURNAL
REFERENCE
AUTHORS

6 (bases 1 to 2235)

Adachi, J., Azawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P., Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W., Hayashida, K., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hirozane, T., Hori, F., Imotani, K., Ishii, Y., Itoh, M., Kaga, I., Kasukawa, T., Katoh, H., Kawai, J., Kojima, Y., Kondo, S., Konno, H., Kouda, M., Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, R., Murata, M., Nakamura, M., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Oheato, N., Okazaki, Y., Saito, R., Saitoh, H., Sakai, C., Sakai, K., Sakazume, N., Sano, H., Sasaki, D., Shibata, K., Shinagawa, A., Shiraki, T., Sogabe, Y., Tagami, M., Tagawa, A., Takahashi, F., Takaku-Akahira, S., Takeda, Y., Tanaka, T., Tomaru, A., Toya, T., Yasunishi, A., Muramatsu, M. and Hayashizaki, Y.

Direct Submission
Submitted (16-JUL-2001) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan [E-mail: genome-res@gsc.riken.jp, URL: <http://genome.gsc.riken.jp/>, Tel: 81-45-503-9222, Fax: 81-45-503-9216]

COMMENT

cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues.

Please visit our web site for further details.
URL: <http://genome.gsc.riken.jp/>
URL: <http://fantom.gsc.riken.jp/>

FEATURES

source

1..2235

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/mol_type="mRNA"

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/db_xref="taxon:10090"

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/tissue_type="colon"

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2235

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polyA_site

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Best Local Similarity: 59.86% Mismatches: 119
Query Match: 52.67% Indels: 17
DB: 3 Gaps: 6

US-10-735-014-83 (1-431) x AK033526 (1-2235)

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Qy 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer 140
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Query Match: 52.67% Indels: 17
DB: 3 Gaps: 6

US-10-735-014-83 (1-431) x AK018635 (1-2265)

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Qy 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrThrSerAla 240
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Qy 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260
Db 973 ACCCTGAAGCTTACGCTTCTGTTG--ACCAGCATTTTCAGTGACAGTACAGCTTTGAAG 1029
Qy 261 GlnProGlnLeuAlaThrThrAlaProProValThrThrValThrSerGlnProProThr 280
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Qy 281 ThrLeuIleSerThrValPheThrArgAlaAlaAlaThrLeuGlnAlaMetAlaThrThr 300
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Qy 421 AspTyrLeuIleAsnGlyIleTyrValAspIle 431
Db 1471 GACTACTTGATCAACGGGATCTATGTGATC 1503

RESULT 10
AK046837 2265 bp mRNA linear HTC 03-APR-2004
LOCUS Mus musculus 10 days neonate medulla oblongata cDNA, RIKEN
DEFINITION full-length enriched library, clone:B830022E21 product:weakly
similar to NT2RM1001115 PROTEIN [Homo sapiens], full insert
sequence.
ACCESSION AK046837.1 GI:26338441
VERSION AK046837.1
KEYWORDS HTC; CAP trapper.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus

REFERENCE
1 Carninci,P. and Hayashizaki,Y.
High-efficiency full-length cDNA cloning
Meth. Enzymol. 303, 19-44 (1999)
99279253
PUBMED 10349636
REFERENCE
2 Carninci,P., Shibata,Y., Hayatsu,N., Sugahara,Y., Shibata,K.,
Itoh,M., Konno,H., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.
Normalization and subtraction of cap-trapper-selected cDNAs to
prepare full-length cDNA libraries for rapid discovery of new genes
Genome Res. 10 (10), 1617-1630 (2000)
20499374
PUBMED 11042159
REFERENCE
3 Shibata,K., Itoh,M., Aizawa,K., Nagaoka,S., Sasaki,N., Carninci,P.,
Konno,H., Akiyama,J., Nishi,K., Kitsuai,T., Tashiro,H., Itoh,M.,
Sumi,N., Ishii,Y., Nakamura,S., Hazama,M., Nishine,T., Harada,A.,
Yamanoto,R., Matsumoto,H., Sakaguchi,S., Ikegami,T., Kashiwagi,K.,
Fujiwaka,S., Inoue,K., Togawa,Y., Izawa,M., Ohara,E., Watahiki,M.,
Yoneda,Y., Ishikawa,T., Ozawa,K., Tanaka,T., Matsura,S., Kawai,J.,
Okazaki,Y., Muramatsu,M., Inoue,Y., Kira,A. and Hayashizaki,Y.
RIKEN integrated sequence analysis (RISA) system--384-format
sequencing pipeline with 384 multicapillary sequencer
Genome Res. 10 (11), 1757-1771 (2000)
20530913
PUBMED 11076861
REFERENCE
4 The RIKEN Genome Exploration Research Group Phase II Team and the
FANTOM Consortium.
Functional annotation of a full-length mouse cDNA collection
Nature 409, 685-690 (2001)
REFERENCE
5 The FANTOM Consortium and the RIKEN Genome Exploration Research
Group Phase I & II Team.
Analysis of the mouse transcriptome based on functional annotation
of 60,770 full-length cDNAs
Nature 420, 563-573 (2002)
JOURNAL

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REFERENCE
AUTHORS

6 (bases 1 to 2265)
 Adachi,J., Aizawa,K., Akimura,T., Arakawa,T., Bono,H., Carninci,P.,
 Fukuda,S., Furuno,M., Hanagaki,T., Hara,A., Hashizume,W.,
 Hayashida,K., Hayatsu,N., Hiramoto,K., Hiraoka,T., Hirozane,T.,
 Hori,F., Imotani,K., Ishii,Y., Itoh,M., Kagawa,I., Kasukawa,T.,
 Katoh,H., Kawai,J., Kojima,Y., Kondo,S., Konno,H., Kouda,M.,
 Koya,S., Kurihara,C., Matsuyama,T., Miyazaki,A., Murata,M.,
 Nakamura,M., Nishi,K., Nomura,K., Numazaki,R., Ohno,M., Ohsato,N.,
 Okazaki,Y., Saito,R., Saitoh,H., Sakai,C., Sakai,K., Sakazume,N.,
 Sano,H., Sasaki,D., Shibata,K., Shinagawa,A., Shiraki,T.,
 Sogabe,Y., Tagami,M., Tagawa,A., Takahashi,F., Takaku-Akahira,S.,
 Takeda,Y., Tanaka,T., Tomaru,A., Toya,T., Yasunishi,A.,
 Muramatsu,M. and Hayashizaki,Y.
 Direct Submission

TITLE
JOURNAL

Submitted (16-JUL-2001) Yoshihide Hayashizaki, The Institute of
 Physical and Chemical Research (RIKEN), Laboratory for Genome
 Exploration Research Group, RIKEN Genomic Sciences Center (GSC),
 RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama,
 Kanagawa 230-0045, Japan (E-mail: genome-res@gs.riken.jp,
 URL: http://genome.gsc.riken.jp/, Tel: 81-45-503-9222,
 Fax: 81-45-503-9216)

COMMENT

CDNA library was prepared and sequenced in Mouse Genome
 Encyclopedia Project of Genome Exploration Research Group in Riken
 Genomic Sciences Center and Genome Science Laboratory in RIKEN
 Division of Experimental Animal Research in Riken contributed to
 prepare mouse tissues.

Please visit our web site for further details.

URL: http://genome.gsc.riken.jp/
 URL: http://fantom.gsc.riken.jp/
 URL: http://fantom.gsc.riken.jp/.

FEATURES

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ORIGIN

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Best Local Similarity:	59.86%	Mismatches:	119
Query Match:	52.67%	Indels:	17
DB:	3	Gaps:	6

US-10-735-014-83 (1-431) x AK046837 (1-2265)

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Sogabe, Y., Tagami, M., Tagawa, A., Takahashi, F., Takaku-Akahira, S.,
Takeda, Y., Tanaka, T., Tomaru, A., Toya, T., Yasunishi, A.,
Muramatsu, M. and Hayashizaki, Y.

TITLE JOURNAL

Submitted (16-JUN-2001) Yoshihide Hayashizaki, The Institute of
Physical and Chemical Research (RIKEN), Laboratory for Genome
Exploration Research Group, RIKEN Genomic Sciences Center (GSC),
RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama,
Kanagawa 230-0045, Japan (E-mail: genome-res@gsc.riken.jp,
URL: http://genome.gsc.riken.jp/, Tel: 81-45-503-9222,
Fax: 81-45-503-9216)

COMMENT

cDNA library was prepared and sequenced in Mouse Genome
Encyclopedia Project of Genome Exploration Research Group in Riken
Genomic Sciences Center and Genome Science Laboratory in RIKEN
Division of Experimental Animal Research in Riken contributed to
prepare mouse tissues.

Please visit our web site for further details.

URL: http://genome.gsc.riken.jp/

URL: http://fantom.gsc.riken.jp/.

FEATURES

source

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2375

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2375

ORIGIN

Alignment Scores:

Pred. No.:	3.82e-95	Length:	2375
Score:	1164.50	Matches:	258
Percent Similarity:	68.45%	Conservative:	37
Best Local Similarity:	59.86%	Mismatches:	119
Query Match:	52.67%	Indels:	17
DB:	3	Gaps:	6

US-10-735-014-83 (1-431) x AK033557 (1-2375)

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SOURCE    GI:51482047
ORGANISM  Homo sapiens (human)
REFERENCE 1 (bases 1 to 623)
AUTHORS   Rual,J.F., Hirozane-Kishikawa,T., Hao,T., Bertin,N., Li,S.,
            Dricot,A., Li,N., Rosenberg,J., Lamesch,P., Vidalain,P.O.,
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            Human ORFome Version 1.1: a Platform for Reverse Proteomics
            Genome Res. (2004) In press
            Contact: Vidal M
            Marc Vidal Laboratory
            Dana Farber Cancer Institute
            1 Jimmy Fund Way Smith 858, BOSTON, MA 02115, USA
            Tel: 617 632 5180
            Fax: 617 632 5739
            Email: Marc.Vidal@dfci.harvard.edu
            ORF Sequence Tag (OST) of Gateway Entry construct. Each cloned ORF
            results from a PCR reaction using an MGC full-length cDNA as
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ORIGIN
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US-10-735-014-83 (1-431) x CV024215 (1-623)

QY      1 MetPheGlyGlyGluGlySerLeuThrTyrThrLeuValIleCysPheLeuThr 20
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ORGANISM  Homo sapiens
REFERENCE 1 (bases 1 to 753)
AUTHORS   NIH-MGC http://mgc.nci.nih.gov/
TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT   Contact: Daniela S. Gerhard, Ph.D.
            Office of Cancer Genomics
            National Cancer Institute / NIH
            Bldg. 31 Rm10A07 Bethesda, MD 20892
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: Arnold Schwartz, MD, PhD
            cDNA Library Preparation: CLONTECH Laboratories, Inc.
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
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FEATURES

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C, or G and N = A, C, G, or T). Average insert size 1.30
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ORGIN

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Best Local Similarity:	97.77%	Mismatches:	3
Query Match:	48.08%	Indels:	2
DB:	7	Gaps:	0

US-10-735-014-83 (1-431) x CF595929 (1-753)

QY	175	LysPheGlySerSerAspHisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGln	194
DB	5	AAGTTTGATCTCTCAGATCACTTGGAGAACTATTTAAGATGGATGAAGCAAGTGCACG	64
QY	195	LeuLeuAlaTyrLysGluLysGlyHisSerGlnSerSerGlnPheSerAspGlnGlu	214
DB	65	CTCCTTGCTTATAAGGAAAGGCGCATCTCAGAGTTTCAACAATTTCTCTGTGATCAAGAA	124
QY	215	IleAlaHisLeuLeuProGluAsnValSerAlaLeuProAlaThrValAlaValAlaSer	234
DB	125	ATAGCTATCTGCTGCTCCGAAATGTAGTGGCTCCAGCTACGGTGGCAGTTGCTTCT	184
QY	235	ProHisThrThrSerAlaThrProLysProAlaThrLeuLeuProThrAsnAlaSerVal	254
DB	185	CCACATACCACCTCGGCTACTCCAAAGCCGCCACCTTCTACCCACCAATGCTTCAGTG	244
QY	255	ThrProSerGlyThrSerGlnProGlnLeuAlaThrThrAlaProProValThrThrVal	274
DB	245	ACACCTTCTGGGACTTCCAGCCACAGCTGGCCACACAGCTCCACCTGTAAACCACTGTC	304
QY	275	ThrSerGlnProProThrThrLeuLeuSerThrThrValPheThrArgAlaAlaThrLeu	294
DB	305	ACTTCTAGCCTCCACAGCCCTCATTTCTACAGTTTTTACCGGCTGGCGCTACACTC	364
QY	295	GlnAlaMetAlaThrThrAlaValLeuThrThrPheGlnAlaProThrAspSerLys	314
DB	365	CAAGCAATGGCTACACAGCAGTCTGACTACCACTTTTCAGGCACCTACGACTCGAAA	424
QY	315	GlySerLeuGluThrIleProPheThrGluLeuSerAsnLeuThrLeuAsnThrGlyAsn	334
DB	425	GGCAGCTTAGAAACCAATACCGTTTACAGAAATCTCCAACTTAACCTTTGAACACAGGGAAT	484
QY	335	ValTyrAsnProThrAlaLeuSerMetSerAsnValGluSerSerThrMetAsnLysThr	354
DB	485	GTGTATACCTTACTGACCTTCTATGTCAATGTGAGTCTCCACTATGATTAATAACT	544
QY	355	AlaSerTrpGluGlyArgGluAlaSerProGlySerSerGlnGlySerValProGlu	374
DB	545	GCTTCTGNGAAGGTAGGAGGCCAGTCCAGGCAGTTTCTCCAGGCGCAGTGTTCACAGAA	604
QY	375	AsnGlnTyrGlyLeuProPheGluLysTrpLeuLeuIleGlySerLeu-LeuPhe-GlyV	394

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1005 AATCAGTACCGCTTCATTTGAAAAATGGCTTCTTATCGGGTCCCTGCTCTTTGGTG 664
394 allLeuPhe 396
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665 TCCTGTTC 672

RESULT 15
AK002644
LOCUS
DEFINITION
Mus musculus adult male kidney cDNA, RIKEN full-length enriched
library, clone:0610017A09 product:weakly similar to NT2RM1001115
PROTEIN (Homo sapiens), full insert sequence.
ACCESSION
AK002644
VERSION
AK002644.1 GI:12832780
KEYWORDS
HTC; CAP trapper.
SOURCE
Mus musculus
ORGANISM
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
1 Carninci, P. and Hayashizaki, Y.
High-efficiency full-length cDNA cloning
Meth. Enzymol. 303, 19-44 (1999)
99279253
PUBMED
10349636
2
Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K.,
Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
Normalization and subtraction of cap-trapper-selected cDNAs to
prepare full-length cDNA libraries for rapid discovery of new genes
Genome Res. 10 (10), 1617-1630 (2000)
20499374
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Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P.,
Konno, H., Akiyama, J., Nishi, K., Kitsumai, T., Tachiro, H., Itoh, M.,
Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A.,
Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K.,
Fujiwaka, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Watahiki, M.,
Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsura, S., Kawai, J.,
Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.
RIKEN integrated sequence analysis (RISA) system--384-format
sequencing pipeline with 384 multicapillary sequencer
Genome Res. 10 (11), 1757-1771 (2000)
20530913
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11076861
4
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Nature 409, 685-690 (2001)
5
The FANTOM Consortium and the RIKEN Genome Exploration Research
Group Phase I & II Team.
Analysis of the mouse transcriptome based on functional annotation
of 60,770 full-length cDNAs
Nature 420, 563-573 (2002)
6 (bases 1 to 2227)
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Arakawa, T., Bono, H., Carninci, P., Fukuda, S., Fukunishi, Y.,
Furuno, M., Hanagaki, T., Hara, A., Hayatsu, N., Hiramoto, K.,
Hiraoka, T., Hori, F., Imotani, K., Ishii, Y., Itoh, M., Izawa, M.,
Kasukawa, T., Kato, H., Kawai, J., Kojima, Y., Konno, H., Kouda, M.,
Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Nishi, K.,
Nomura, K., Numazaki, R., Ohno, M., Okazaki, Y., Okido, T., Owa, C.,
Saito, H., Saito, R., Sakai, C., Sakai, K., Sano, H., Sasaki, D.,
Shibata, K., Shibata, Y., Shinagawa, A., Shiraki, T., Sogabe, Y.,
Suzuki, H., Tagami, M., Tagawa, A., Takahashi, F., Tanaka, T.,
Tejima, Y., Taya, T., Yamamura, T., Yasunishi, A., Yoshida, K.,
Yoshino, M., Muramatsu, M. and Hayashizaki, Y.
Direct Submission
Submitted (10-JUL-2000) Yoshihide Hayashizaki, The Institute of
Physical and Chemical Research (RIKEN), Laboratory for Genome

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Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Teurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail: genome-res@gsc.riken.jp, URL: http://genome.gsc.riken.jp/, Tel: 81-45-503-9222, Fax: 81-45-503-9216)

Please visit our web site (<http://genome.gsc.riken.jp/>) for further details.

COMMENT

cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in Riken Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. First strand cDNA was primed with a primer .15' GAGAGAGACGGCCGCACTCGAGTCTTTTCTTTTNN 3', cDNA was prepared by using trihalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 5.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGAGATCCAGAGTCATTAATTAATTAACCCCCCCCC 3']. cDNA was cleaved with XhoI and SstI. Cloning sites, 5' end: SstI; 3' end: XhoI. Host: SOLR.

FEATURES

Location/Qualifiers

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/db_xref="taxon:10090"
/clone="0610017A09"
/sex="male"
/tissue_type="kidney"
/clone_lib="RIKEN full-length enriched mouse cDNA library"
/dev_stage="adult"
1..2227
misc_feature
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ORIGIN

Alignment Scores:

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Pred. No.: 2,9e-85 Length: 2227
Score: 1056.00 Matches: 248
Percent Similarity: 66.36% Conservative: 38
Best Local Similarity: 57.54% Mismatches: 128
Query Match: 47.76% Indels: 20
DB: 3 Gaps: 6

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US-10-735-014-83 (1-431) x AK002644 (1-2227)

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QY 41 IleGlnSerSerLeuSerLysGlyIleArgGlyAsnGluProValThrThrGln 60
Db 397 ATCCATCTGCTGCTTCAAAAGGCATTCAGGCAATGAGCCCATACACTTGGCACTG 456
QY 61 GluAspCysIleAsnSerCysCysSerThrLysAsnIleSerGlyAspLysAlaCysAn 80
Db 457 GAAGACTGTATCGGTGCTGCTGCTTCAACAAAAGACATAGCAGGGGACAAAGCATGTAAT 516
QY 81 LeuMetIlePheAspThrArgLysThrAlaArgGlnProAsnCysThrLeuPhePheCys 100
Db 517 TTGATGATCTTTGACACCCGGAAGACAGACAGACAGCCCACTGCTGCTGCTGCTGCT 576
QY 101 ProAsnGluGluAlaCysProLeuLysProAlaLysGlyLeuMetSerThrArgIleIle 120
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QY 121 ThrAspPheProSerLeuThrArgAsnLeuProSerGlnGluLeuProGlnGluAspSer 140

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Search completed: April 27, 2005, 00:58:02
Job time : 3367 secs

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Db 637 AGAGATTTTCCGCTCACCAGCGCTAATTCATCACTCCACAGTGTACACAAGGAGATTT 696
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Db 697 CTCTTACTTGACCATTCGTACAGGAGCCACCTTGGGTTCGTATCCACGAGCATTTAC 756
QY 161 SerLysProThrAspLysSerTyrArgAspThrLeuSerGlnLysPheGlySerSerAsp 180
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QY 181 HisLeuGluLysLeuPheLysMetAspGluAlaSerAlaGlnLeuLeuAlaTyrLysGlu 200
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QY 201 LysGlyHisSerGlnSerGlnPheSerSerAspGlnGluIleAlaHisLeuLeuPro 220
Db 871 AAAGCCATCTTCAGAGTTTACAGCTTCCCTCAGAACTAAATAATGGCTCATCTGCTCC 930
QY 221 GluAsnValSerAlaLeuProAlaThrValAlaValAlaSerProHisThrThrSerAla 240
Db 931 AAAACTGTGCGGACTCCACCTACCACTGTAGCTGTGGCTCCCTCCGTAACGCTCTG 990
QY 241 ThrProLysProAlaThrLeuLeuProThrAsnAlaSerValThrProSerGlyThrSer 260
Db 991 ACCCTGAAGCCCTGAGCTTCTGTG---ACCAGCATTTTCACTGACAGCTAAGACTTTGA 1047
QY 261 GlnProGlnLeuAlaThrThrAlaProProValThrThrValThrValThrSerGlnPro 280
Db 1048 CAGAAGGAG---GCCACACACATCACTGTGACACCGTACCTGCAAGCTCCAGGAG 1104
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Db 1105 GTCCCGGGTCTTACAAGTTTTTACA-----CCCGTGGTTACACATCAG 1146
QY 301 AlaValLeuThrThrPheGlnAlaProThrAspSerLysGlySerLeuGluThrIle 320
Db 1147 GCAGCTTTGACTTAACACCTTTTCAGGCACATACAGACTCCAAAGGCTCTTAGAAA 1206
QY 321 ProPheThrGluIleSerAsnLeuThrLeuAsnThrGlyAsnValTyrAsnProThrAla 340
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QY 341 LeuSerMetSerAsnValGluSerSerThrThrMetAsnLysThrAlaSerTyrGluArg 360
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QY 361 GluAlaSerProGlySerSerSerGlnGlySerValProGluAsnGlnTyrGlyLeuPro 380
Db 1309 AGGGTCAGTGTAGGCGAGCGCATCGCTGAACAAGGGTCCAAAAGGCGAGCATGT-CTTACA 1367
QY 381 PheGluLysTrpLeuLeuIleGlySerLeuLeuPheGlyValLeuPheLeuValleGly 400
Db 1368 TTTGAGAAGGG--TCTCTCATCGGCCCATCTCTGG--TGTGTTATTTGTTGGTAAGTAG 1425
QY 401 LeuValLeuLeuGlyArgIleLeuSerGluSerLeuArgArgLysArgTyrSerArgLeu 420
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Db 1486 GACTACTTGTATCAACGGGATCTATGTTGACATC 1518

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